

PLUMBERS' BRASS SPECIALTIES



The AMERICAN PIN Co.
WATERBURY, CONN.



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Plumbers' Specialties

Brass Goods

of every description, made from
Rod or Sheet Brass, or
Brass Castings



CATALOGUE "H"

The American Pin Company

INCORPORATED 1846

WATERBURY, CONN.

GEORGE A. DRIGGS, President and Treasurer
F. E. BARTLETT, Vice-President

W. W. BOWERS, Secretary
H. B. JENKINS, Asst. Secretary

T. I. DRIGGS, Asst. Treasurer

Factory and Shipping Address, Waterville, Conn.

BRANCHES:

NEW YORK CITY, 890 Broadway
BOSTON, MASS., 501 Washington St.
CHICAGO, ILL., 209 South State St.

PHILADELPHIA, PA., North American Building
CLEVELAND, OHIO, 920 Citizens' Building
SAN FRANCISCO, CALIF., 133 Kearny Street



Factories, Waterville, Conn.



The Mark of Service

¶ Until now, the utmost which the careful buyer of *Plumbing Specialties* could make his purchases include have been skilled workmanship, worthy materials and honest prices.

¶ A new and additional value is now possible—SERVICE. And so that you may know that the goods you purchase surely possess this additional value we have adopted the symbol represented by the trade mark pictured above, as an identifying mark. It will serve as your guarantee that the goods and packages on which it appears are in reality products of The American Pin Company, than which no finer thing can be said about any plumbing specialty.

¶ This *Mark of Service* is a concise way we take to tell you that we have been making goods in brass for nearly 75 years; that our plant and equipment comprises every modern improvement that makes for perfect manufacturing; that our factory methods are based on the most modern standards of practical efficiency; that each separate product which leaves our factory must have passed the highest critical tests for material, workmanship, finishing and packaging.

¶ And this SERVICE—though priceless in the satisfaction and confidence it guarantees you—costs you nothing.

The American Pin Company

—Plumbing Department.



Plumbing Supplies for the Jobber.

A DAY never ends but some new idea has been developed, and this probably is never more truly verified than when applied to the plumbing craft. For this reason it is difficult to cover the field of plumbing supplies in its entirety. Our aim in the pages which follow is to show you of what our line is composed, and to bring to your attention clearly the class of supplies we manufacture. Our efforts have been to lead in points of design, workmanship, finish and general character. The success can be ascertained by our remarkable growth and expansion in the past few years, and by the favor with which our products are received by the trade.

It is gratifying to know that we have instilled a spirit of confidence in the minds of both the Jobber and the Plumber. This has resulted in a great measure from our strict adherence to a policy of selling through supply houses only. Such a course is fair to all and we will maintain "Ampinco" Squareness at the same high standard as "Ampinco" Quality and "Ampinco" Service.





Important Facts Concerning Ampinco Wastes and Overflows

We have for many years been manufacturers of Wastes and Overflows. These years of experience have enabled us to develop a standard line of Wastes second to none.

The trade that demands a heavy Waste and Overflow will find in our Wastes made up with cast parts, an article that will fill every requirement. The castings are as free from burrs on the inside as castings can be made, are nicely finished and when assembled, they present a fine appearance.

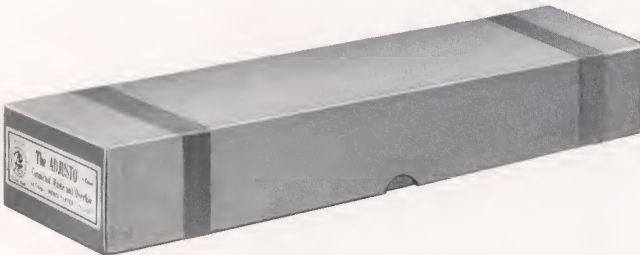


All parts wrapped in Tissue

Wrought Metal Wastes and Overflows

We have developed with the aid of expert mechanics a line of wrought metal fixtures, which have points of excellence and advantage over the cast Waste and Overflow thereby causing an increased demand for these fixtures by the trade from year to year.

Our well-known brands, comprising the "ADJUSTO," the "WONDER," and "LIMIT" types, we claim as superior to all others. The difficulties and annoyances of poor fittings and porous castings are overcome in the wrought metal construction of tee and elbows.



Wrapped and boxed, ready for casing

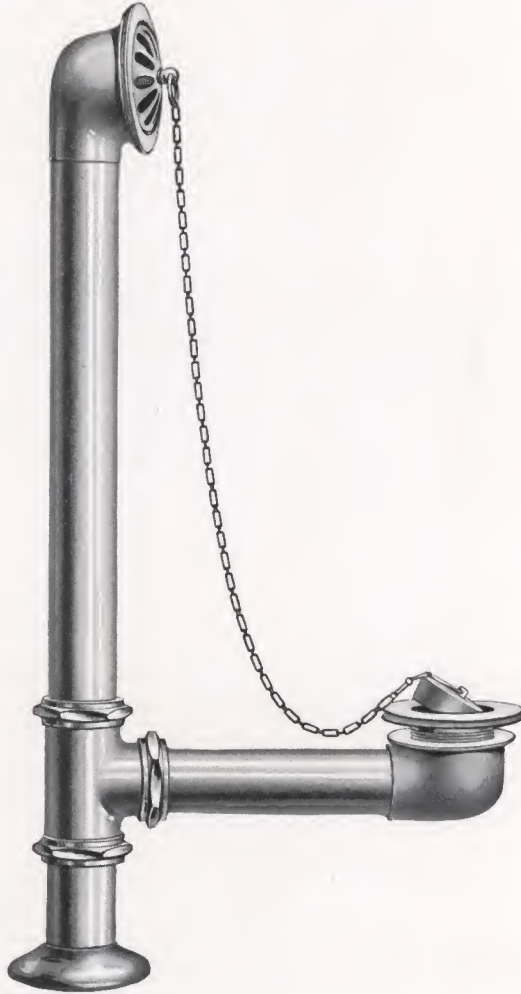
We use seamless drawn tubing, and all parts are assembled with joints tapped and threaded together and made tight with cement.

We furnish with all our best grade Wastes and Overflows a heavy flange that will not crush when stepped on. Rubber parts are made full size and of the best material. Special attention is paid to the assembling, wrapping and boxing, thus preventing our goods being dented or injured. They are just as represented, and for this reason are always in demand. All parts highly polished and nicked.

Order the "AMPINCO" brand of Wastes and Overflows.



Bath Wastes



No. 8022

Connected Waste and Overflow, Polished and Nickered
Size $1\frac{3}{8}$ Inches

Cast top and bottom Elbows, cast Tee, cast hexagon Nuts, wrought metal top and bottom Strainers. Seamless $1\frac{3}{8}$ inch outside diameter tubing, in either 17 or 22 gauges.

We can substitute No. 10425 heavy wrought top Strainer or No. 10127 cast bottom Strainer or No. 10141 cast top Strainer, as illustrated on page 14, if so ordered.

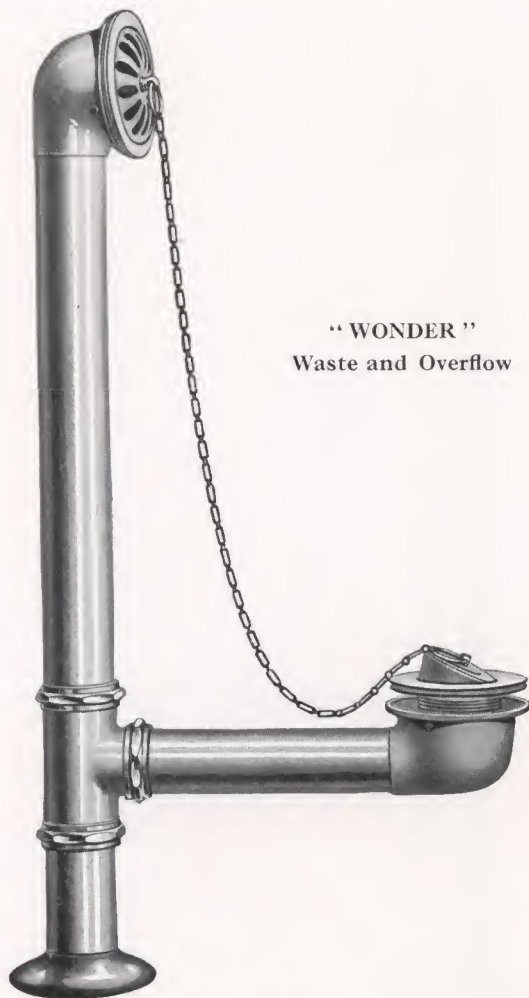
Heavy flange furnished regularly as shown on page 14.

Wrapped in tissue, packed one in a box, 50 in a case.

We carry this Waste in stock in 17 and 22 gauges.



Bath Wastes



“WONDER”

Waste and Overflow

No. 10371

Connected Waste and Overflow, Polished and Nickeled
Size $1\frac{3}{8}$ Inches

Large wrought top and bottom Elbows, wrought Tee, cast hexagon Nuts, wrought metal top and bottom Strainers. Seamless $1\frac{3}{8}$ inch outside diameter tubing, in either 17 or 22 gauges.

We can substitute No. 10425 heavy wrought top Strainer or No. 10127 cast bottom Strainer or No. 10141 cast top Strainer, as illustrated on page 14, if so ordered.

Heavy flange furnished regularly as shown on page 14.

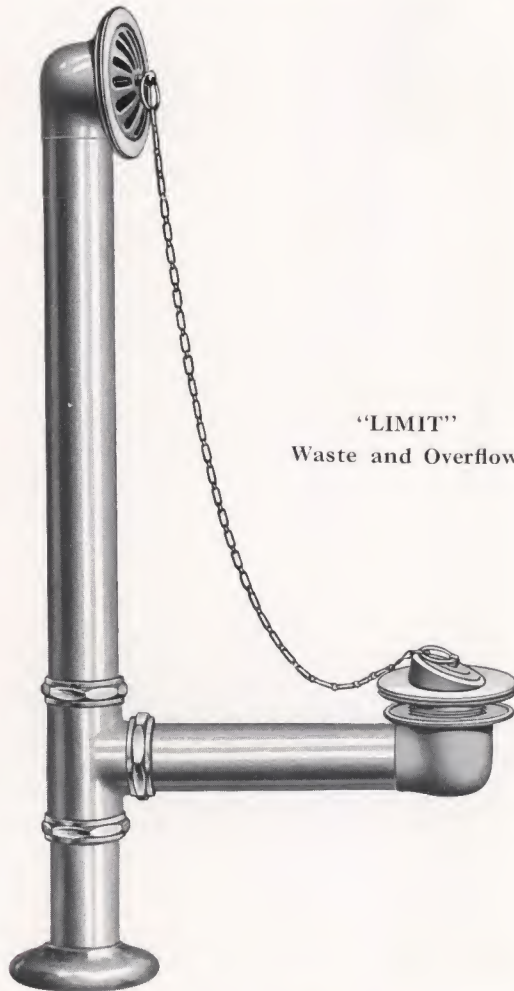
Wrapped in tissue, packed one in a box, 50 in a case.

We carry this Waste in stock in 17 and 22 gauges.

See page 7 for detailed information about this waste and overflow.



Bath Wastes



No. 10083

Connected Waste and Overflow, Polished and Nickered
Size $1\frac{3}{8}$ Inches

Wrought top and bottom Elbows, wrought Tee, wrought hexagon Nuts, wrought metal top and bottom Strainers. Seamless $1\frac{3}{8}$ inch outside diameter tubing, in either 17, 22 or 25 gauges.

We can substitute No. 10425 heavy wrought top Strainer or No. 10127 cast bottom Strainer or No. 10141 cast top Strainer, as illustrated on page 14, if so ordered.

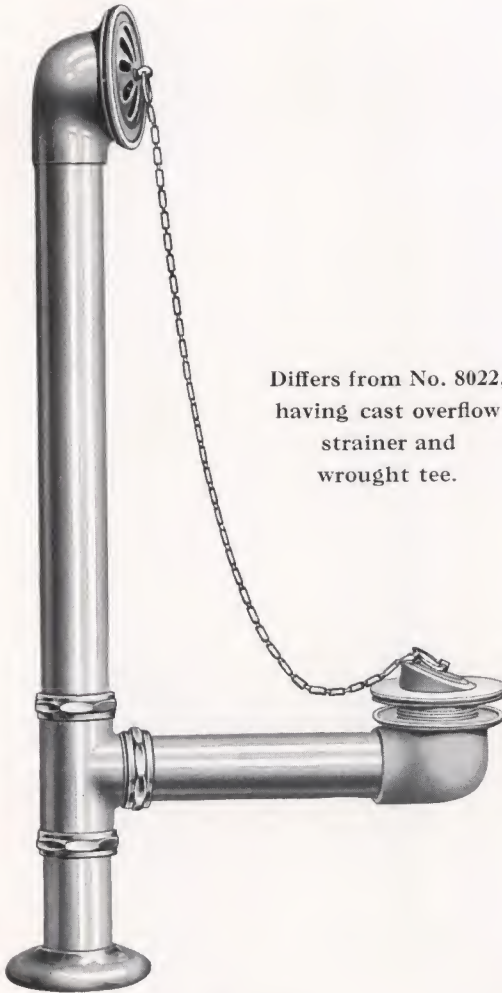
Wrapped in tissue, packed one in a box, 50 in a case.

We carry this Waste in stock in 17, 22 and 25 gauges.

See page 7 for detailed information about this waste and overflow.



Bath Wastes



Differs from No. 8022,
having cast overflow
strainer and
wrought tee.

No. 10203

Connected Waste and Overflow, Polished and Nickered
Size 1 $\frac{3}{8}$ Inches

Cast top and bottom Elbows, wrought Tee, cast hexagon Nuts, cast top Strainer and wrought bottom Strainer. Seamless 1 $\frac{3}{8}$ inch outside diameter tubing, in either 17 or 22 gauges.

We can substitute No. 10425 heavy wrought top Strainer or No. 10127 cast bottom Strainer, as illustrated on page 14, if so ordered.

Heavy flange furnished regularly as shown on page 14.

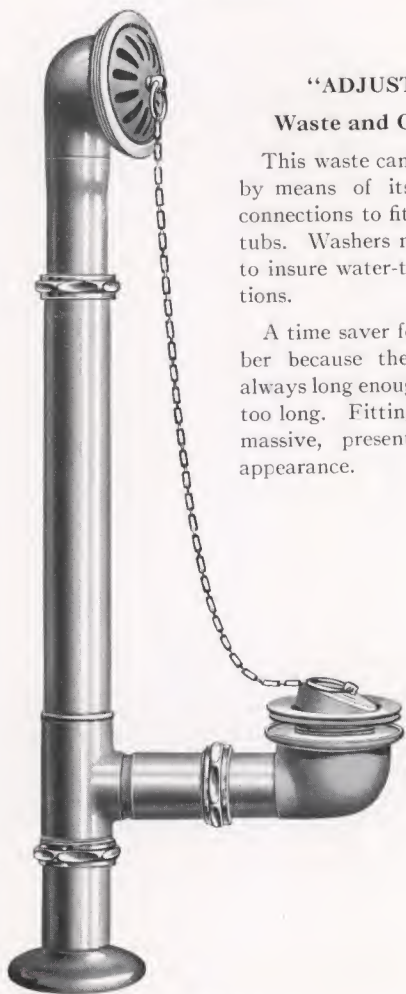
Wrapped in tissue, packed one in a box, 50 in a case.

We carry this Waste in stock in 17 and 22 gauges.

See page 7 for detailed information about this waste and overflow.



Bath Wastes



"ADJUSTO"

Waste and Overflow

This waste can be adjusted by means of its slip joint connections to fit all makes of tubs. Washers made special to insure water-tight connections.

A time saver for the plumber because the tubes are always long enough and never too long. Fittings large and massive, presenting a fine appearance.

No. 10373

**Adjustable Connected Waste and Overflow, Polished and Nickered
Size 1 $\frac{3}{8}$ Inches**

Large wrought top and bottom Elbows, wrought Tee, cast hexagon Nuts, wrought metal top and bottom Strainers. Seamless 1 $\frac{3}{8}$ inch outside diameter tubing, in either 17 or 22 gauges.

We can substitute No. 10425 heavy wrought top Strainer or No. 10127 cast bottom Strainer or No. 10141 cast top Strainer, as illustrated on page 14, if so ordered.

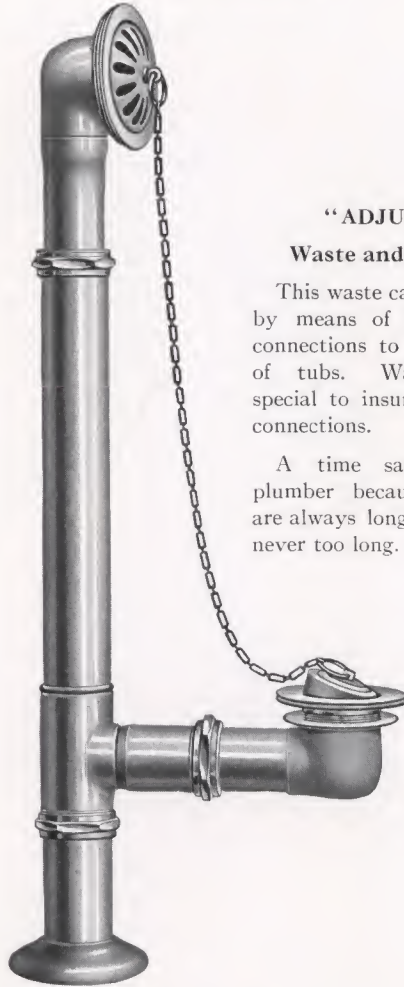
Heavy flange furnished regularly as shown on page 14.

Wrapped in tissue, packed one in a box, 50 in a case.

We carry this Waste in stock in 17 and 22 gauges.



Bath Wastes



"ADJUSTO"

Waste and Overflow

This waste can be adjusted by means of its slip joint connections to fit all makes of tubs. Washers made special to insure water-tight connections.

A time saver for the plumber because the tubes are always long enough and never too long.

No. 12025

Adjustable Connected Waste and Overflow, Polished and Nickered
Size $1\frac{3}{8}$ Inches

Wrought top and bottom Elbows, wrought Tee, wrought hexagon Nuts, wrought metal top and bottom Strainers. Seamless $1\frac{3}{8}$ inch outside diameter tubing in either 17, 22 or 25 gauges.

We can substitute No. 10425 heavy wrought top Strainer or No. 10127 cast bottom Strainer or No. 10141 cast top Strainer, as illustrated on page 14, if so ordered.

Heavy flange furnished regularly as shown on page 14.

Wrapped in tissue, packed one in a box, 50 in a case.

We carry this Waste in stock in 17, 22 and 25 gauges.



Fittings for Bath Wastes



No. 10425

Wrought Overflow Strainer
Nickel Plated

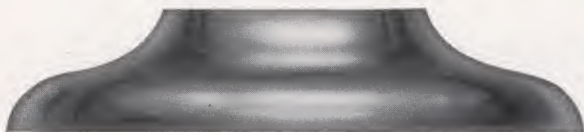
Heavy pattern, outside diameter $3\frac{1}{2}$ inches.
This Strainer used with overflow outlet of waste and overflow.



No. 10141

Cast Overflow Strainer
Polished and Nickerled

Outside diameter $3\frac{1}{2}$ inches.
This Strainer used with overflow outlet of waste and overflow.



No. 9279

Wrought Brass Flange, Nickel Plated
Heavy Pattern

This style flange is made of heavy gauge brass and so constructed as to bear a person's weight without crushing. Not easily dented.



No. 10127

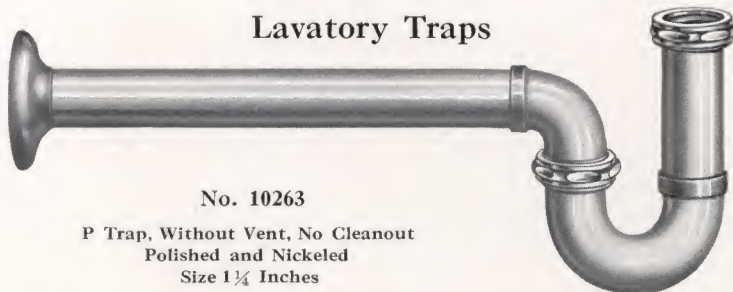
Cast Bottom Strainer
Polished and Nickerled

Diameter of flange $2\frac{1}{8}$ inches, length under flange 1 inch, threaded $1\frac{1}{4}$ inches by 16 threads.
This Strainer used in bottom outlet of waste and overflow.

Illustrations are actual size



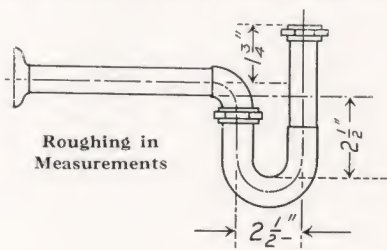
Lavatory Traps



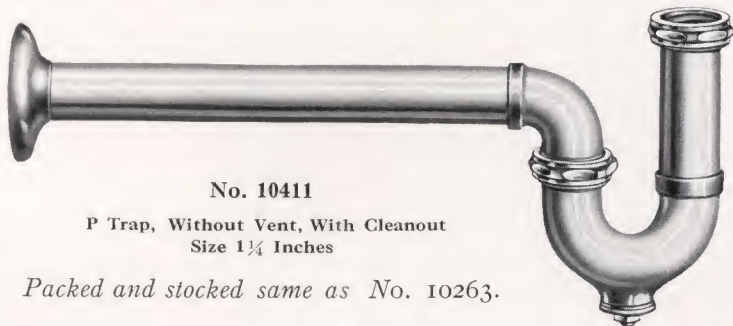
No. 10263

P Trap, Without Vent, No Cleanout
Polished and Nickeled
Size $1\frac{1}{4}$ Inches

Wrapped in tissue, packed one in a box, 50 in a case.
We carry in stock in 17 and 22 gauge tubing.



The traps shown on this page are made fully adjustable, equipped with heavy cast nuts and cast bodies, seamless drawn tubing in basin and wall tubes, with heavy flange as shown on page 14. Will slip $1\frac{1}{4}$ inch tail piece on plugs or couplings.



No. 10411

P Trap, Without Vent, With Cleanout
Size $1\frac{1}{4}$ Inches

Packed and stocked same as No. 10263.



No. 10420
Cast P. O. Plug
Size $1\frac{1}{4}$ Inches



No. 9287
Wrought Coupling
Size $1\frac{1}{4}$ Inches



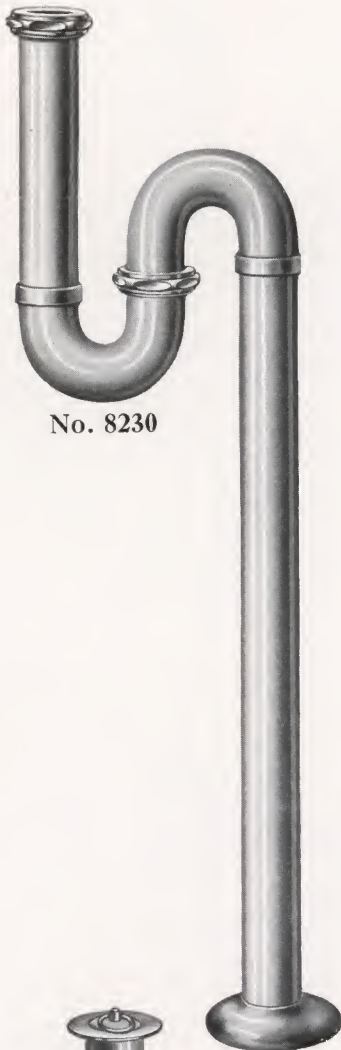
No. 12066
Wrought P. O. Plug
Size $1\frac{1}{4}$ Inches

See pages 36, 37 and 40 for general description of plugs and couplings.

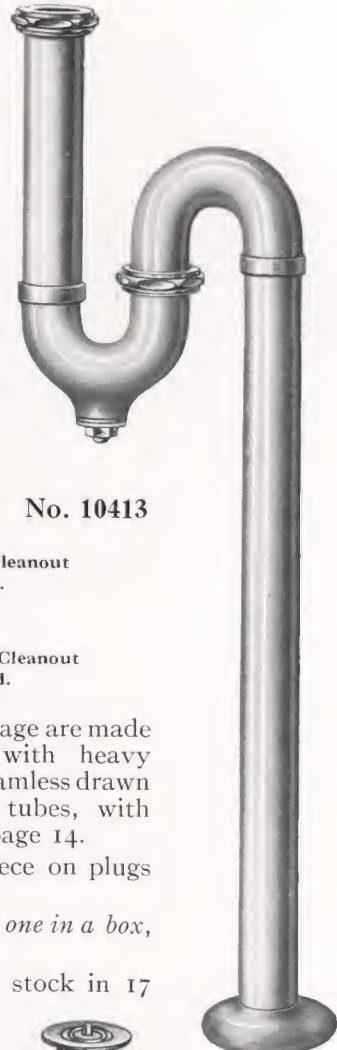
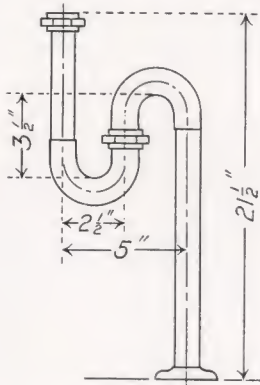
Will furnish on trap orders either plug or coupling as specified.



Lavatory Traps



No. 8230



Roughing-in Measurements No. 10413

No. 8230

S Trap, Without Vent, No Cleanout
Polished and Nickeled.
Size 1 1/4 Inches

No. 10413

S Trap, Without Vent, With Cleanout
Polished and Nickeled.
Size 1 1/4 Inches

The traps shown on this page are made fully adjustable, equipped with heavy cast nuts and cast bodies, seamless drawn tubing in basin and floor tubes, with heavy flange as shown on page 14.

Will slip 1 1/4 inch tail piece on plugs or couplings.

Wrapped in tissue, packed one in a box, 50 in a case.

We carry these traps in stock in 17 and 22 gauge tubing.



No. 10420
Cast P. O. Plug
Size 1 1/4 Inches



No. 9287
Wrought Coupling
Size 1 1/4 Inches



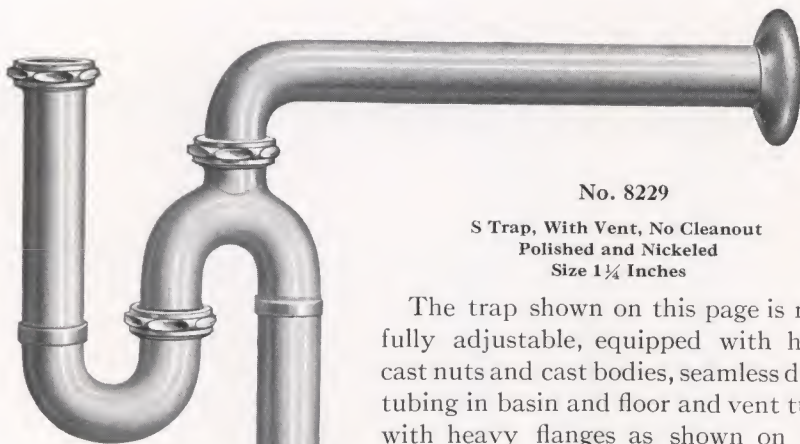
No. 12066
Wrought P. O. Plug
Size 1 1/4 Inches

See pages 36, 37 and 40 for general description of plugs and couplings.

Will furnish on trap orders either plug or coupling as specified.



Lavatory Traps



No. 8229

No. 8229

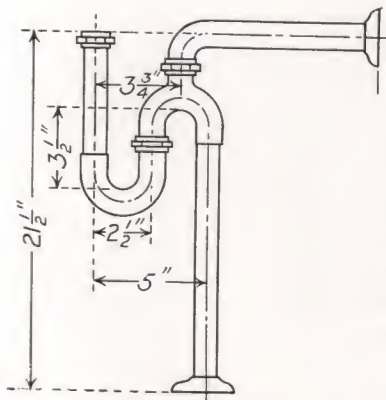
S Trap, With Vent, No Cleanout
Polished and Nickered
Size 1 1/4 Inches

The trap shown on this page is made fully adjustable, equipped with heavy cast nuts and cast bodies, seamless drawn tubing in basin and floor and vent tubes, with heavy flanges as shown on page 14.

Will slip 1 1/4 inch tail piece on plugs or couplings.

Wrapped in tissue, packed one in a box, 50 in a case.

We carry this trap in stock in 22 gauge tubing.



Roughing-in Measurements



No. 10420
Cast
P. O. Plug
Size 1 1/4 Inches



No. 9287
Wrought
Coupling
Size 1 1/4 Inches



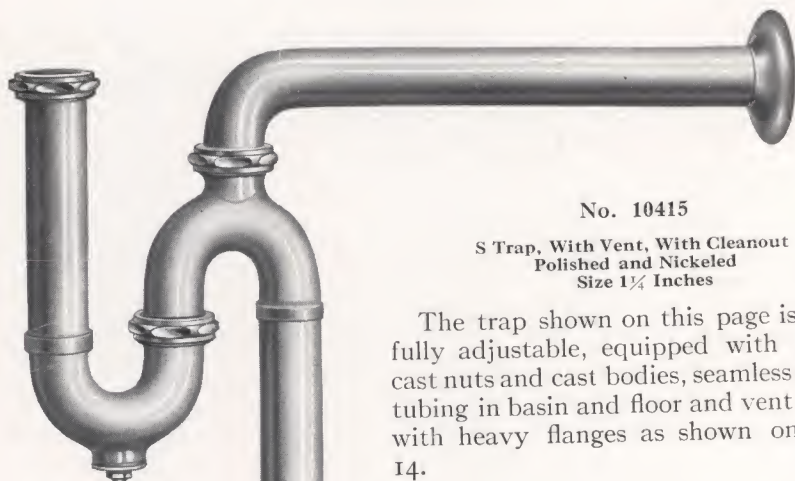
No. 12066
Wrought
P. O. Plug
Size 1 1/4 Inches

See pages 36, 37 and 40 for general description of plugs and couplings.

Will furnish on trap orders either plug or coupling as specified.



Lavatory Traps



No. 10415

No. 10415

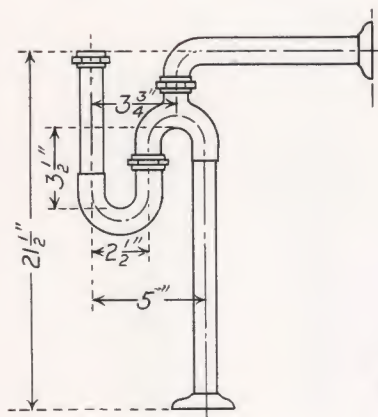
S Trap, With Vent, With Cleanout
Polished and Nickered
Size $1\frac{1}{4}$ Inches

The trap shown on this page is made fully adjustable, equipped with heavy cast nuts and cast bodies, seamless drawn tubing in basin and floor and vent tubes, with heavy flanges as shown on page 14.

Will slip $1\frac{1}{4}$ inch tail piece on plugs or couplings.

Wrapped in tissue, packed one in a box, 50 in a case.

We carry this trap in stock in 22 gauge tubing.



Roughing-in Measurements



No. 10420

Cast
P. O. Plug
Size $1\frac{1}{4}$ Inches



No. 9287

Wrought
Coupling
Size $1\frac{1}{4}$ Inches



No. 12066

Wrought
P. O. Plug
Size $1\frac{1}{4}$ Inches

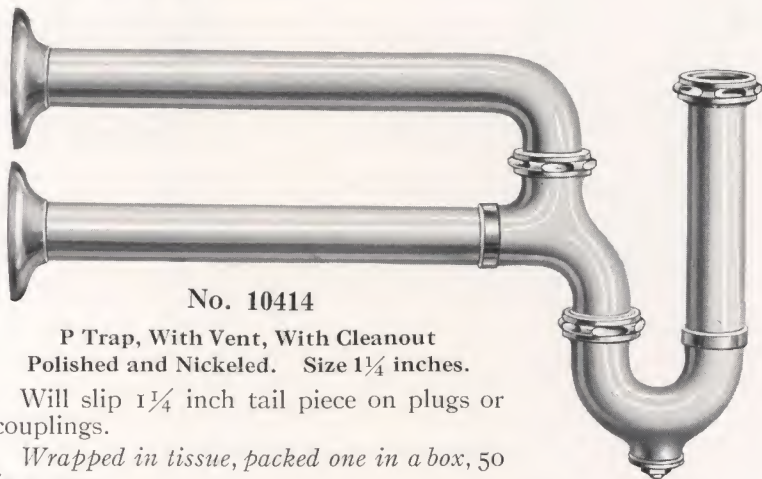
See pages 36, 37 and 40 for general description of plugs and couplings.

Will furnish on trap orders either plug or coupling as specified.



Lavatory Traps

The trap shown on this page is made fully adjustable, equipped with heavy cast nuts and cast bodies, seamless drawn tubing in basin and wall and vent tubes, with heavy flanges as shown on page 14.



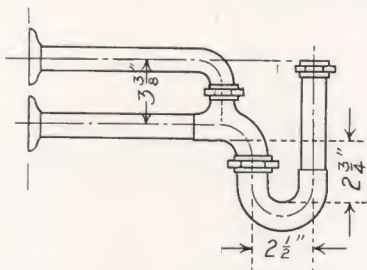
No. 10414

P Trap, With Vent, With Cleanout
Polished and Nickered. Size $1\frac{1}{4}$ inches.

Will slip $1\frac{1}{4}$ inch tail piece on plugs or couplings.

Wrapped in tissue, packed one in a box, 50 in a case.

We carry this trap in stock in 22 gauge tubing.



Roughing-in Measurements



No. 10420

Cast P. O. Plug
Size $1\frac{1}{4}$ Inches



No. 9287

Wrought Coupling
Size $1\frac{1}{4}$ Inches



No. 12066

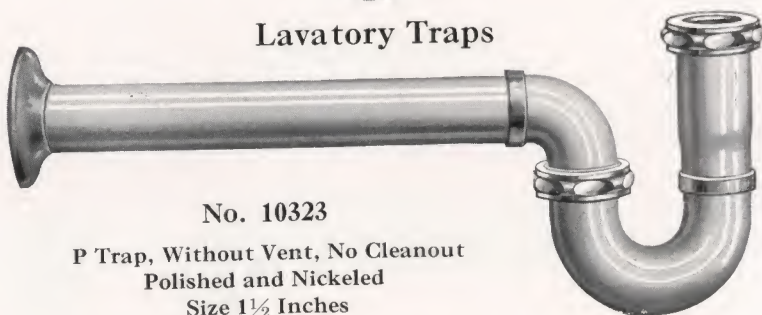
Wrought P. O. Plug
Size $1\frac{1}{4}$ Inches

See pages 36, 37 and 40 for general description of plugs and couplings.

Will furnish on trap orders either plug or coupling as specified.



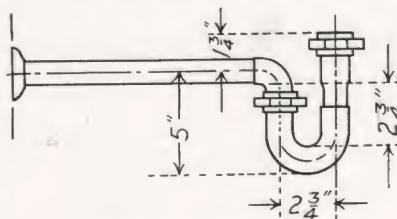
Lavatory Traps



No. 10323

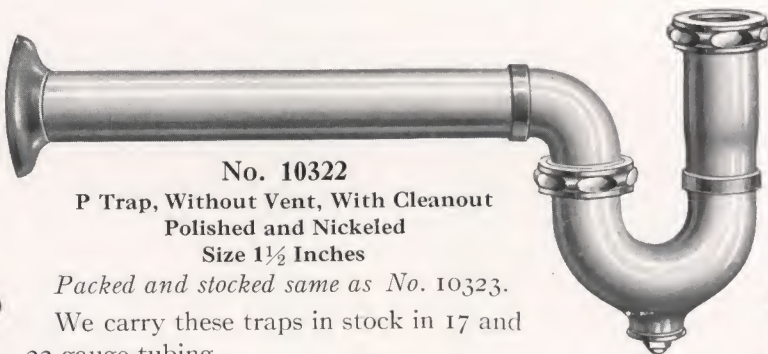
P Trap, Without Vent, No Cleanout
Polished and Nickeled
Size 1½ Inches

Wrapped in tissue, packed one in a box, 50 in a case



Roughing-in Measurements

The traps shown on this page are made fully adjustable, equipped with heavy cast nuts and cast bodies, seamless drawn tubing in basin and wall tubes, with heavy flanges as shown on page 14. Provided with either 1¼ inch or 1½ inch slip joint inlet as specified.



No. 10322

P Trap, Without Vent, With Cleanout
Polished and Nickeled
Size 1½ Inches

Packed and stocked same as No. 10323.

We carry these traps in stock in 17 and 22 gauge tubing.



No. 10420
Cast P. O. Plug
Size 1¼ Inches



No. 10354
Wrought Coupling
Size 1½ Inches

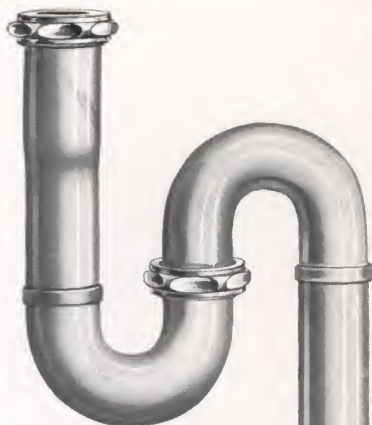


No. 12066
Wrought P. O. Plug
Size 1¼ Inches

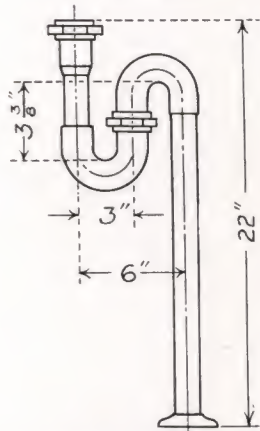
*See pages 36, 37 and 40 for general description of plugs and couplings.
Will furnish on trap orders either plug or coupling as specified.*



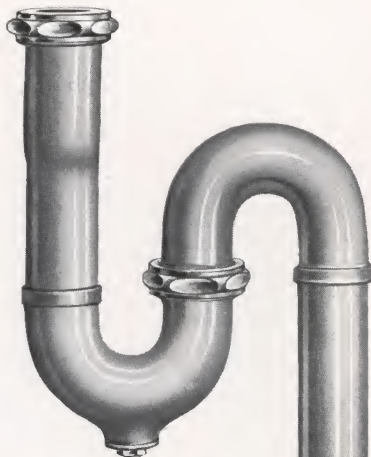
Lavatory Traps



No. 10327



Roughing-in Measurements



No. 10326

No. 10327

S Trap, Without Vent, No Cleanout
Polished and Nickeled
Size 1 1/2 Inches

No. 10326

S Trap, Without Vent, With Cleanout
Polished and Nickeled
Size 1 1/2 Inches

The traps shown on this page are made fully adjustable, equipped with heavy cast nuts and cast bodies, seamless drawn tubing in basin and floor tubes, with heavy flanges as shown on page 14.

Provided with either 1 1/4 inch or 1 1/2 inch slip joint inlet as specified.

Wrapped in tissue, packed one in a box, 50 in a case.

We carry these traps in stock in 17 and 22 gauge tubing.



No. 10420
Cast P. O. Plug
Size 1 1/4 Inches



No. 10354
Wrought Coupling
Size 1 1/2 Inches



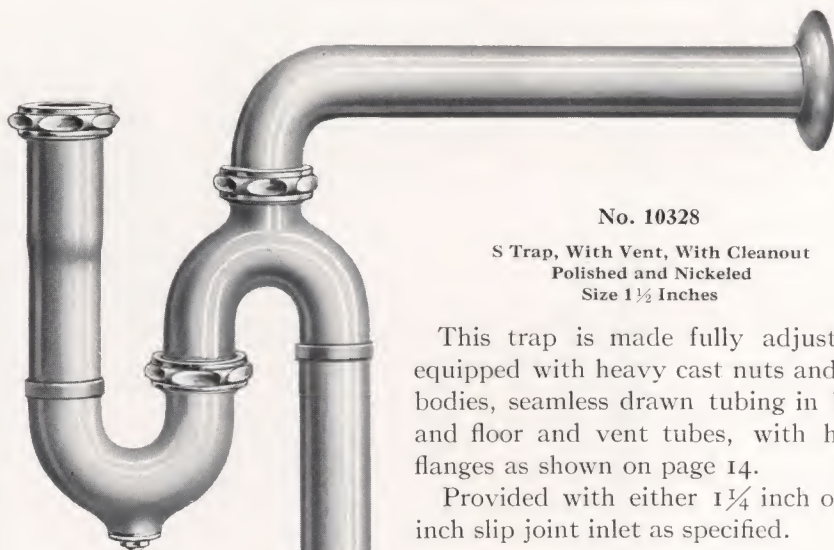
No. 12066
Wrought P. O. Plug
Size 1 1/4 Inches

See pages 36, 37 and 40 for general description of plugs and couplings.

Will furnish on trap orders either plug or coupling as specified.



Lavatory Traps



No. 10328

No. 10328

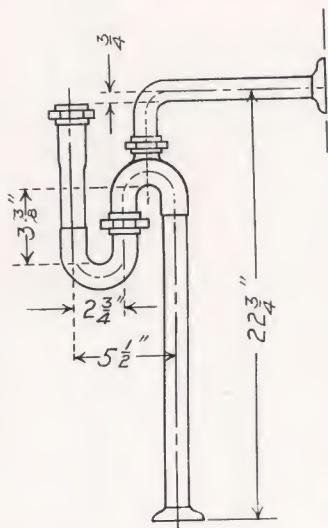
S Trap, With Vent, With Cleanout
Polished and Nicked
Size 1 1/2 Inches

This trap is made fully adjustable, equipped with heavy cast nuts and cast bodies, seamless drawn tubing in basin and floor and vent tubes, with heavy flanges as shown on page 14.

Provided with either 1 1/4 inch or 1 1/2 inch slip joint inlet as specified.

Wrapped in tissue, packed one in a box, 50 in a case.

We carry this trap in stock in 22 gauge tubing.



Roughing-in Measurements



No. 10420

Cast
P. O. Plug
Size 1 1/4 Inches



No. 10354

Wrought
Coupling
Size 1 1/2 Inches



No. 10266

Wrought
P. O. Plug
Size 1 1/4 Inches

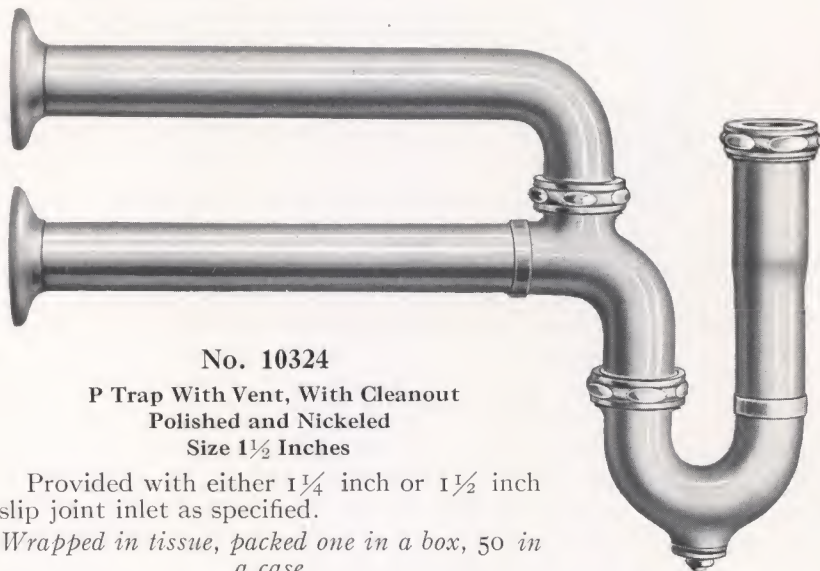
See pages 36, 37 and 40 for general description of plugs and couplings.

Will furnish on trap orders either plug or coupling, as specified.



Lavatory Traps

The trap shown on this page is made fully adjustable, equipped with heavy cast nuts and cast bodies, seamless drawn tubing in basin and wall and vent tubes, with heavy flanges as shown on page 14.



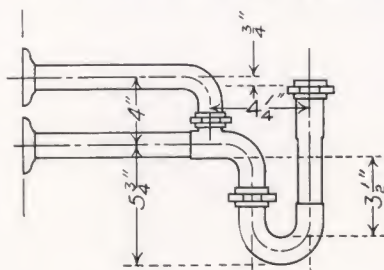
No. 10324

P Trap With Vent, With Cleanout
Polished and Nickeled
Size 1½ Inches

Provided with either 1¼ inch or 1½ inch slip joint inlet as specified.

Wrapped in tissue, packed one in a box, 50 in a case.

We carry this trap in stock in 22 gauge tubing.



Roughing-in Measurements



No. 10420

Cast P. O. Plug
Size 1¼ Inches



No. 10354

Wrought Coupling
Size 1½ Inches



No. 12066

Wrought P. O. Plug
Size 1¼ Inches

See pages 36, 37 and 40 for general description of plugs and couplings.

Will furnish on trap orders either plug or coupling as specified.



Lavatory Traps



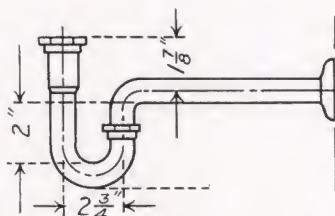
No. 12048
Wrought Tube P Trap
Without Vent, With Cleanout
Polished and Nickered
Size 1 1/4 Inches

The traps shown on this page are made fully adjustable, equipped with wrought bends, wrought hexagon nuts, with heavy flanges as shown on page 14.

Will slip 1 1/4 inch tail piece on plugs or couplings.



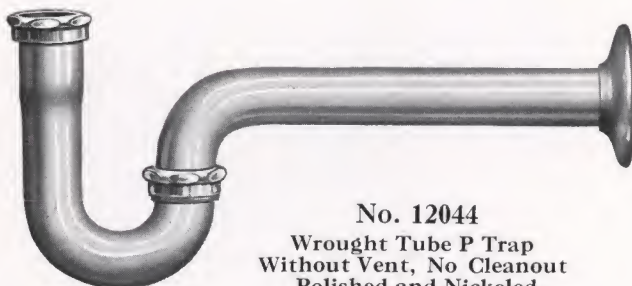
No. 9287
Wrought Coupling
Size 1 1/4 Inches



Roughing-in Measurements



No. 12066
Wrought P. O. Plug
Size 1 1/4 Inches



No. 12044
Wrought Tube P Trap
Without Vent, No Cleanout
Polished and Nickered
Size 1 1/4 Inches

Wrapped in tissue, packed one in a box, 50 in a case.

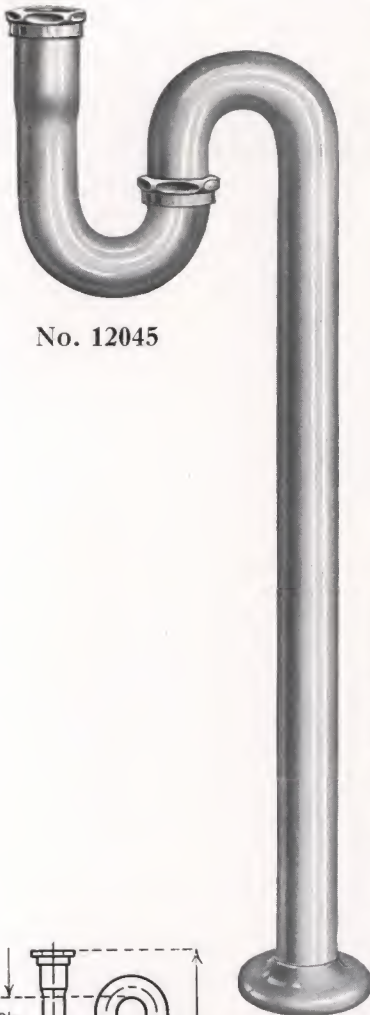
We carry these traps in stock in 17 and 20 gauge tubing.

See pages 37 and 40 for general description of plugs and couplings.

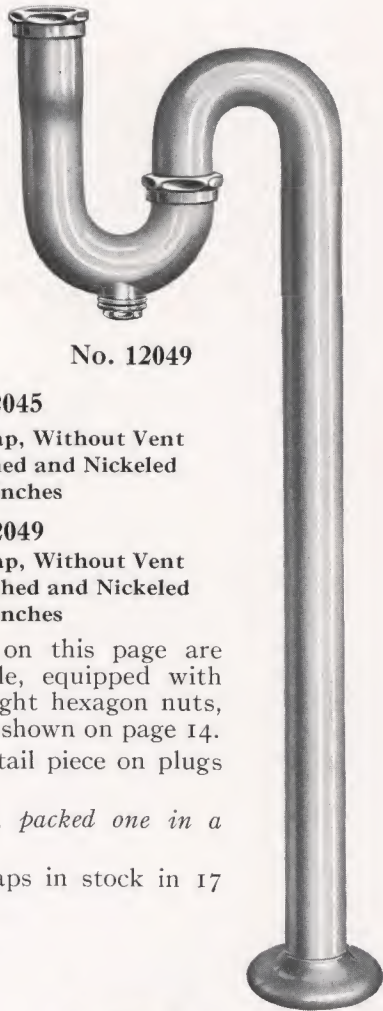
Will furnish on trap orders either plug or coupling as specified.



Lavatory Traps



No. 12045



No. 12049

No. 12045

Wrought Tube S Trap, Without Vent
No Cleanout, Polished and Nickeled
Size $1\frac{1}{4}$ Inches

No. 12049

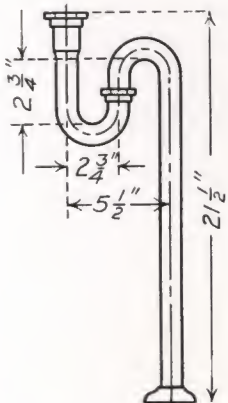
Wrought Tube S Trap, Without Vent
With Cleanout, Polished and Nickeled
Size $1\frac{1}{4}$ Inches

The traps shown on this page are made fully adjustable, equipped with wrought bends, wrought hexagon nuts, with heavy flanges as shown on page 14.

Will slip $1\frac{1}{4}$ inch tail piece on plugs or couplings.

Wrapped in tissue, packed one in a box, 50 in a case.

We carry these traps in stock in 17 and 20 gauge tubing.



Roughing-in
Measurements



No. 12066

Wrought P. O. Plug
Size $1\frac{1}{4}$ Inches



No. 9287

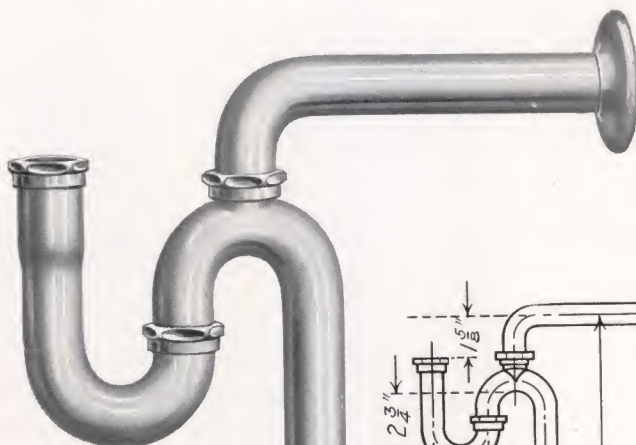
Wrought Coupling
Size $1\frac{1}{4}$ Inches

See pages 37 and 40 for general description of plugs and couplings.

Will furnish on trap orders either plug or coupling as specified.



Lavatory Traps



No. 12047

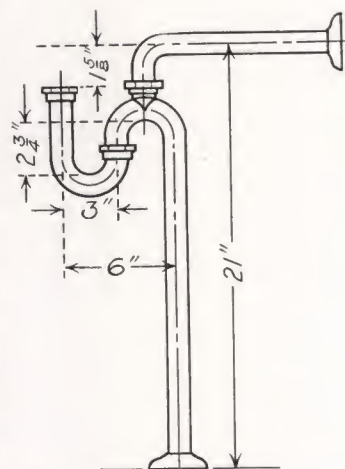
Wrought Tube S Trap
With Vent, No Cleanout
Polished and Nickered
Size $1\frac{1}{4}$ Inches

The trap shown on this page is made fully adjustable, equipped with wrought bends, wrought hexagon nuts, with heavy flanges as shown on page 14.

Will slip $1\frac{1}{4}$ inch tail piece on plugs or couplings.

Wrapped in tissue, packed one in a box, 50 in a case.

We carry this trap in stock in 20 gauge tubing.



Roughing-in Measurements



No. 9287

Wrought Coupling
Size $1\frac{1}{4}$ Inches



No. 12066

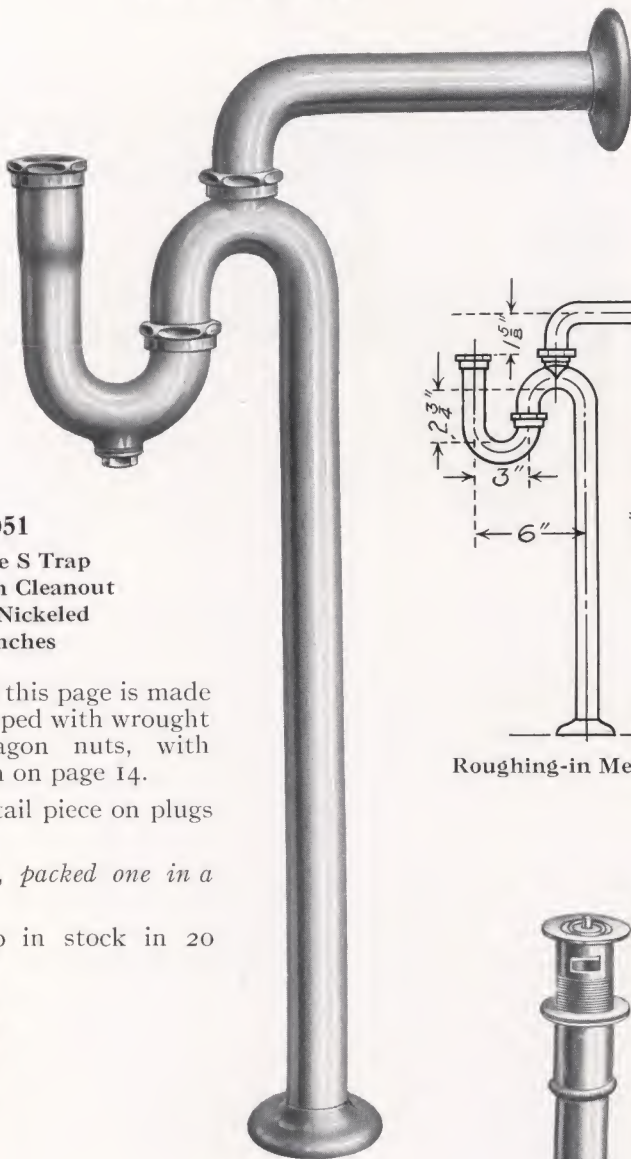
Wrought P. O. Plug
Size $1\frac{1}{4}$ Inches

See pages 37 and 40 for general description of plugs and couplings.

Will furnish on trap orders either plug or coupling as specified.



Lavatory Traps



No. 12051

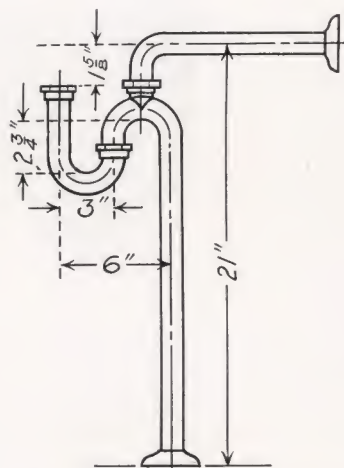
**Wrought Tube S Trap
With Vent, With Cleanout
Polished and Nicked
Size 1 1/4 Inches**

The trap shown on this page is made fully adjustable, equipped with wrought bends, wrought hexagon nuts, with heavy flanges as shown on page 14.

Will slip 1 1/4 inch tail piece on plugs or couplings.

Wrapped in tissue, packed one in a box, 50 in a case.

We carry this trap in stock in 20 gauge tubing.



Roughing-in Measurements



No. 9287

**Wrought Coupling
Size 1 1/4 Inches**



No. 12066

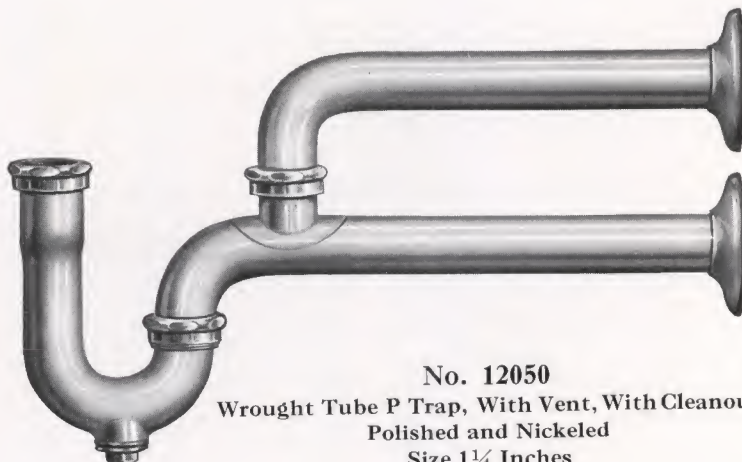
**Wrought P. O. Plug
Size 1 1/4 Inches**

See pages 37 and 40 for general description of plugs and couplings.

Will furnish on trap orders either plug or coupling as specified.



Lavatory Traps



No. 12050

Wrought Tube P Trap, With Vent, With Cleanout
Polished and Nickered
Size 1 1/4 Inches

The trap shown on this page is made fully adjustable, equipped with wrought bends, and wrought hexagon nuts, with heavy flanges as shown on page 14.

Will slip 1 1/4 inch tail piece on plugs or couplings.

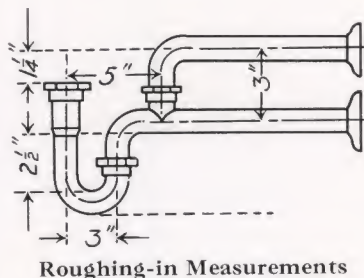
Wrapped in tissue, packed one in a box, 50 in a case.

We carry this trap in stock in 20 gauge tubing.



No. 12066

Wrought P. O. Plug
Size 1 1/4 Inches



Roughing-in Measurements



No. 9287

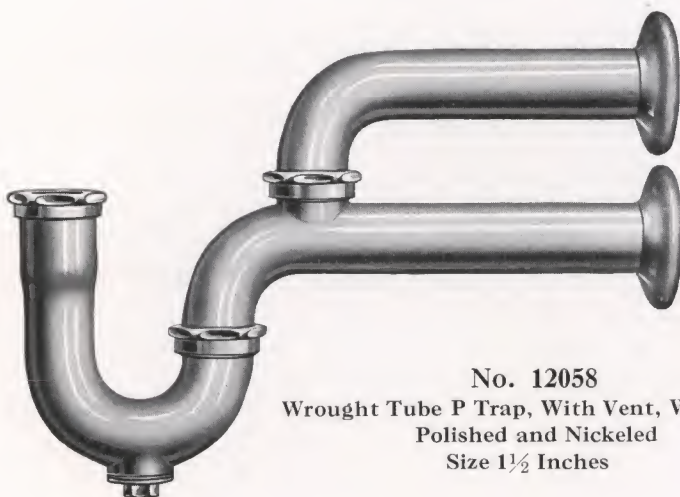
Wrought Coupling
Size 1 1/4 Inches

See pages 37 and 40 for general description of plugs and couplings.

Will furnish on trap orders either plug or coupling as specified.



Lavatory Traps



No. 12058
Wrought Tube P Trap, With Vent, With Cleanout
Polished and Nickeled
Size 1½ Inches

The trap shown on this page is made fully adjustable, equipped with wrought bends, wrought hexagon nuts, with heavy flanges as shown on page 14.

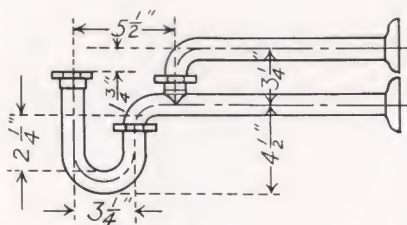
Provided with either 1¼ inch or 1½ inch slip joint inlet as specified.

Wrapped in tissue, packed one in a box, 50 in a case.

We carry this trap in stock in 20 gauge tubing.



No. 12066
Wrought P. O. Plug
Size 1¼ Inches



Roughing-in Measurements



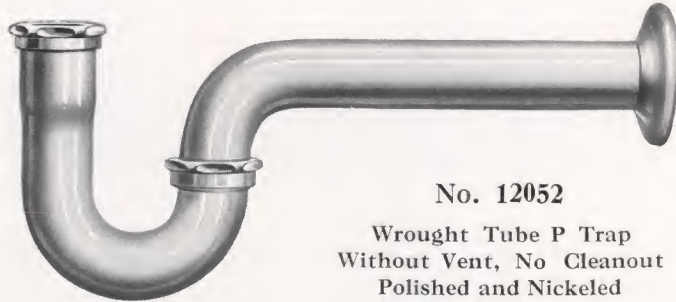
No. 10354
Wrought Coupling
Size 1½ Inches

See pages 37 and 40 for general description of plugs and couplings.

Will furnish on trap orders either plug or coupling as specified.



Lavatory Traps



No. 12052

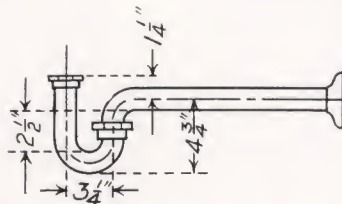
Wrought Tube P Trap
Without Vent, No Cleanout
Polished and Nickeled
Size $1\frac{1}{2}$ Inches

The traps shown on this page are made fully adjustable, equipped with wrought bends, wrought hexagon nuts, with heavy flanges as shown on page 14.

Provided with either $1\frac{1}{4}$ inch or $1\frac{1}{2}$ inch slip joint inlet as specified.



No. 12066
Wrought P. O. Plug
Size $1\frac{1}{4}$ Inches



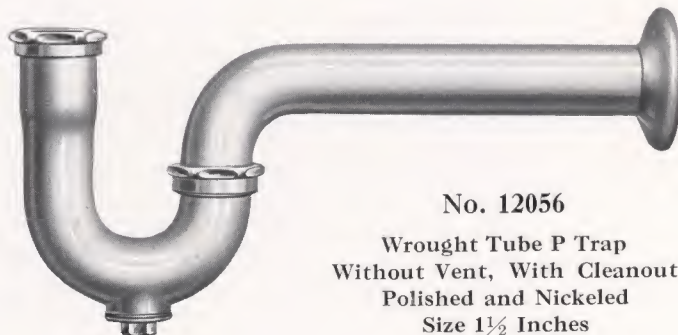
Roughing-in Measurements

See pages 37 and 40 for general description of plugs and couplings.

Will furnish on trap orders either plug or coupling as specified.



No. 10354
Wrought Coupling
Size $1\frac{1}{2}$ Inches



No. 12056

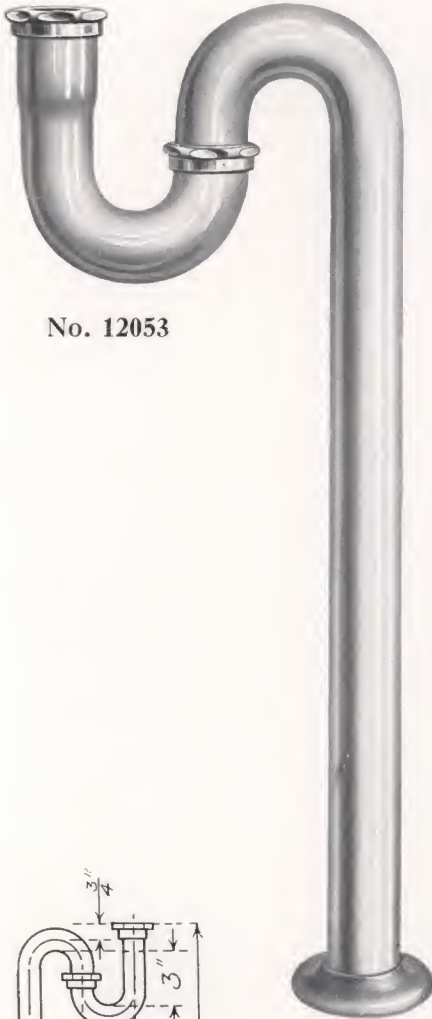
Wrought Tube P Trap
Without Vent, With Cleanout
Polished and Nickeled
Size $1\frac{1}{2}$ Inches

Wrapped in tissue, packed one in a box, 50 in a case.

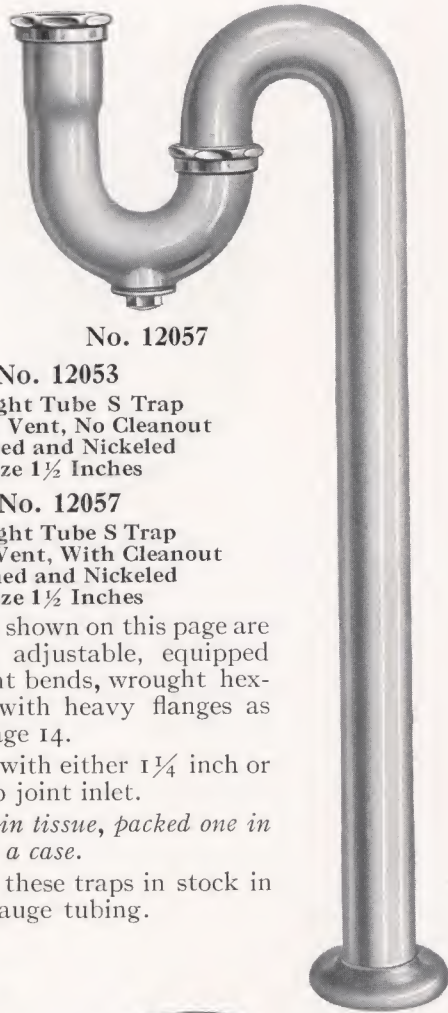
We carry these traps in stock in 17 and 20 gauge tubing.



Lavatory Traps



No. 12053



No. 12057

No. 12053
Wrought Tube S Trap
Without Vent, No Cleanout
Polished and Nickeled
Size 1½ Inches

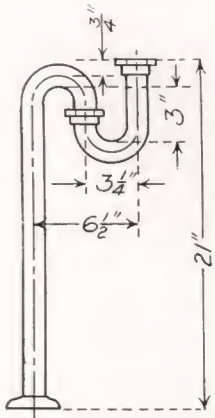
No. 12057
Wrought Tube S Trap
Without Vent, With Cleanout
Polished and Nickeled
Size 1½ Inches

The traps shown on this page are made fully adjustable, equipped with wrought bends, wrought hexagon nuts, with heavy flanges as shown on page 14.

Provided with either 1¼ inch or 1½ inch slip joint inlet.

Wrapped in tissue, packed one in a box, 50 in a case.

We carry these traps in stock in 17 and 20 gauge tubing.



Roughing-in
Measurements



No. 12066
Wrought P. O. Plug
Size 1¼ inches



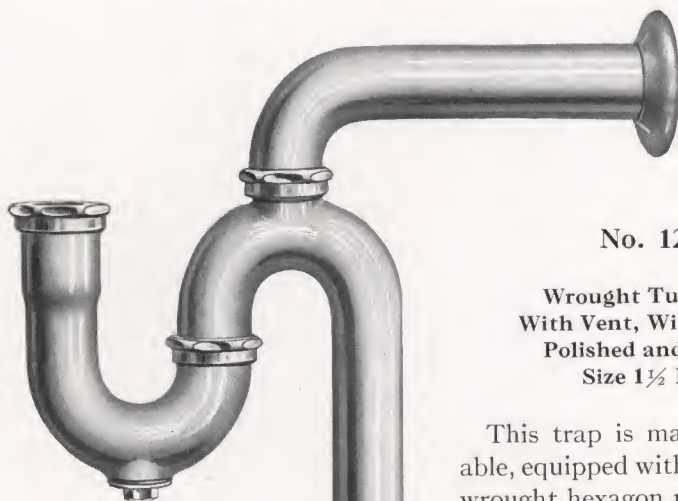
No. 10354
Wrought Coupling
Size 1½ inches

See pages 37 and 40 for general description of plugs and couplings.

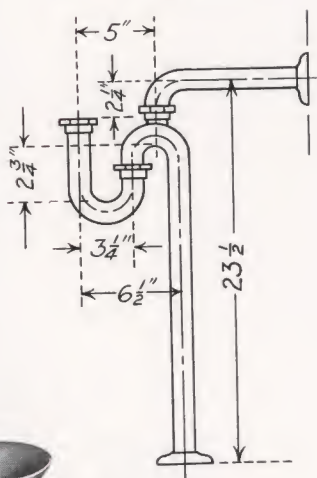
Will furnish on trap orders either plug or coupling as specified.



Lavatory Traps



No. 12059



Roughing-in
Measurements

No. 12059

**Wrought Tube S Trap
With Vent, With Cleanout
Polished and Nickered
Size 1 1/2 Inches**

This trap is made fully adjustable, equipped with wrought bends, wrought hexagon nuts, with heavy flanges as shown on page 14.

Provided with either 1 1/4 inch or 1 1/2 inch slip joint inlet as specified.

Wrapped in tissue, packed one in a box, 50 in a case.

We carry this trap in stock in 20 gauge tubing.



No. 10354

**Wrought Coupling
Size 1 1/2 Inches**



No. 12066

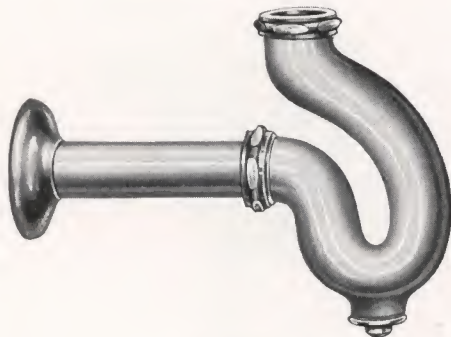
**Wrought P. O. Plug
Size 1 1/4 Inches**

See pages 37 and 40 for general description of plugs and couplings.

Will furnish on trap orders either plug or coupling as specified.



Lavatory Traps

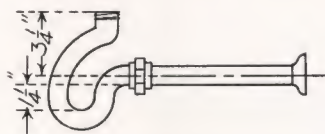


No. 10475

Bag Trap, With Cleanout, Polished and Nickered
Size $1\frac{1}{4}$ Inches

This trap is made with a cast body, cast hexagon nuts, with heavy flange as shown on page 14. Will slip $1\frac{1}{4}$ inch tail piece on plugs or couplings.

Wrapped in tissue, packed one in a box, 50 in a case.



Roughing-in Measurements



No. 10420

Cast P. O. Plug
Size $1\frac{1}{4}$ Inches



No. 9287

Wrought Coupling
Size $1\frac{1}{4}$ Inches



No. 12066

Wrought P. O. Plug
Size $1\frac{1}{4}$ Inches

See pages 36, 37 and 40 for general description of plugs and couplings.

Will furnish on trap orders either plug or coupling as specified.



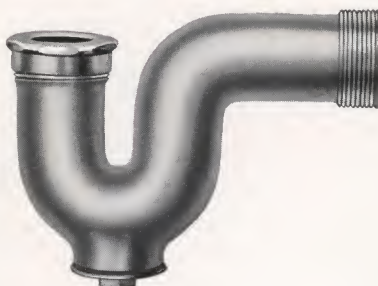
Lavatory Traps



No. 10479

New York Regulation Trap

Body 1½ inches, tapped 1½ inch iron pipe size, female.
Will slip either 1¼ inch or 1½ inch outside diameter tail piece.
Cast brass, Polished and Nickerled.
Fitted with large cleanout screw.



No. 10480

New York Regulation Trap

Body 1½ inches, threaded 1½ inch iron pipe size, male.
Will slip either 1¼ inch or 1½ inch outside diameter tail piece.
Cast brass, Polished and Nickerled.
Fitted with large cleanout screw.

See page 37 for general description of plug.

N. Y. Regulation Traps all wrapped in tissue, packed one in a box, 50 in a case.



No. 12088

Wrought P. O. Plug
1¼ inch tail piece
7½ inches long



Basin Waste

No. 12197

Straight Basin Waste Pipe
Polished and Nickeled

Outside diameter $1\frac{1}{4}$ inches,
22 gauge, $23\frac{3}{4}$ inches
long over all.

Cast hexagon nut with either 6450
or 9279 flange as shown on
pages 48 and 49.

*Wrapped three in a bundle,
packed 50 in a case.*



No. 10420

Cast P. O. Plug
Size $1\frac{1}{4}$ inches



No. 12197



No. 12066

Wrought P. O. Plug
Size $1\frac{1}{4}$ Inches

See pages 36 and 37 for general description of plugs.

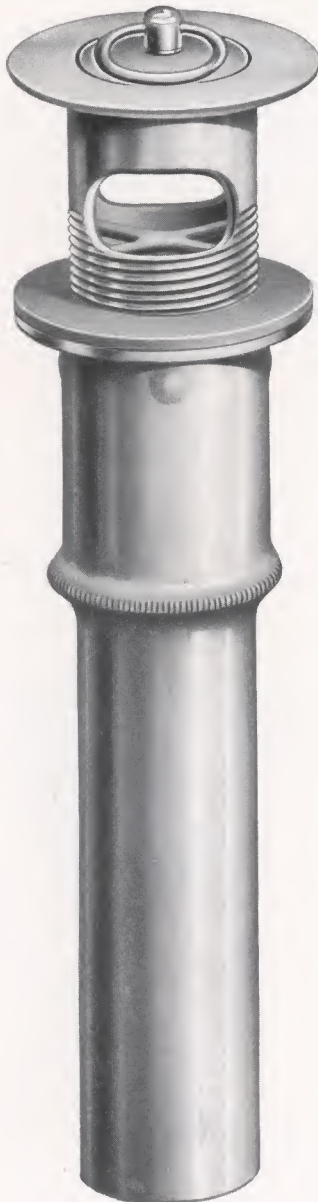
Will furnish on basin waste orders either plug as specified.



Waste Fittings for Lavatories

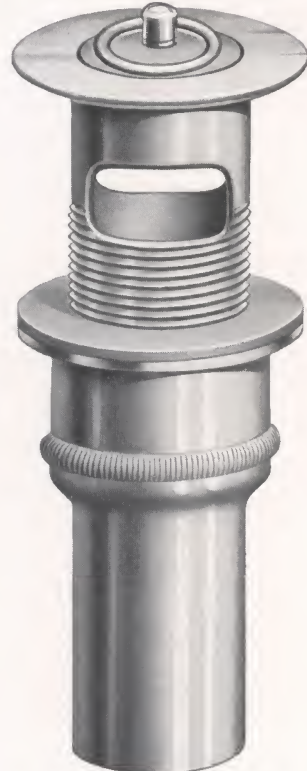
for use with

Traps and Straight Waste Pipes



No. 10420

**P. O. Plug Including Rubber
Stopper**



No. 10385

**P. O. Plug Including Rubber Stopper
Nickel Plated**

Cast plug $2\frac{7}{8}$ inches long under flange. Wrought tail piece 3 inches long under flange, $1\frac{1}{4}$ inch outside diameter and one piece.

No. 10420

**P. O. Plug Including Rubber Stopper
Nickel Plated**

Same as No. 10385, excepting wrought tail piece $5\frac{1}{2}$ inches long under flange, and one piece.

*Wrapped and packed 12 in a box, 21 boxes
in a case.*

These plugs are threaded $1\frac{1}{4}$ inches outside diameter by 14 threads.



Waste Fittings for Lavatories

for use with
Traps and Straight
Waste Pipes



No. 12088

No. 12088

P. O. Plug Including Rubber
Stopper. Nickel Plated

Wrought plug $2\frac{3}{4}$ inches long
under flange. Wrought tail piece
(two piece) $7\frac{1}{2}$ inches long under
flange, $1\frac{1}{4}$ inch outside dia-
meter.

*Wrapped 16 in a box, 10 boxes
in a case.*



No. 12066

No. 12066

P. O. Plug Including Rubber
Stopper. Nickel Plated

Same as No. 12088 excepting
tail piece (one piece) $5\frac{1}{2}$ inches
long under flange.

*Wrapped and packed 12 in a
box, 21 boxes in a case.*

These plugs are threaded $1\frac{1}{4}$ inches outside diameter
by 14 threads.



Waste Fittings for Lavatories

for use with

Traps and Straight Waste Pipes

No. 12062

**P. O. Plug
Including Rubber Stopper
Nickel Plated**

Wrought plug $3\frac{3}{4}$ inches long under flange.

Wrought tail piece (one piece) $5\frac{1}{2}$ inches long under flange, $1\frac{1}{4}$ inch outside diameter.

Wrapped 12 in a box, 21 boxes in a case.

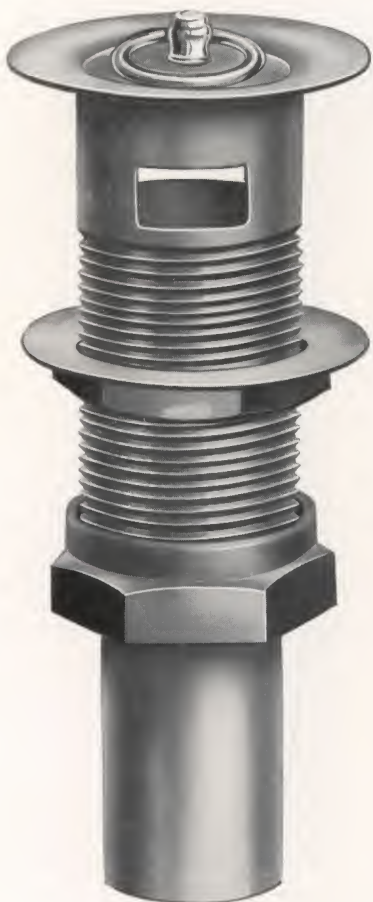
This plug is threaded $1\frac{1}{4}$ inches outside diameter by 14 threads.

No. 12062



Waste Fittings for Lavatories

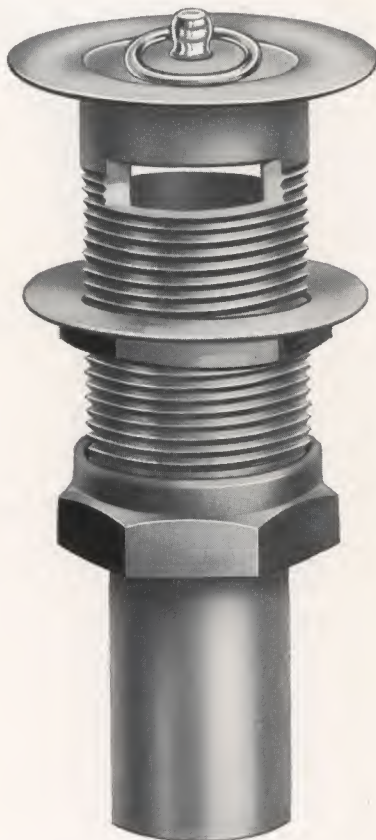
P. O. Basin Plugs for Lead Pipe Connections



No. 7171

**P. O. Basin Plug
Including Rubber Stopper
Nickel Plated**

Wrought plug $2\frac{7}{8}$ inches long
under flange.



No. 7191

**P. O. Basin Plug
Including Rubber Stopper
Nickel Plated**

Cast plug $2\frac{7}{8}$ inches long
under flange.

These basin plugs are fitted with cast coupling and lock nuts, dipped brass.
Wrought tail piece $1\frac{5}{8}$ inches long, 1 inch outside diameter, dipped brass.

These plugs are threaded $1\frac{1}{4}$ inches outside diameter by 14 threads.

Packed 12 in a box, 21 boxes in a case.



Sink Couplings



No. 7160

**Sink Coupling
Nickel Plated**

Couplings for connecting collars of iron sinks with inlet of traps.

These couplings are one piece, drawn from heavy gauge wrought brass and polished, with good nickel plate.



No. 10354

**Sink Coupling
Nickel Plated**

Measurements

No. 7160 tail piece $1\frac{1}{4}$ inch outside diameter, 2 inches long under shoulder.

No. 9287 (*not illustrated*) tail piece $1\frac{1}{4}$ inch outside diameter, 4 inches long under shoulder.

No. 10354 tail piece $1\frac{1}{2}$ inch outside diameter, $4\frac{1}{2}$ inches long under shoulder.

Wrapped and packed 12 in a box, excepting No. 10354. These are packed 10 in a box.



WE wish to call particular attention to our very attractive line of basin and bath supply pipes. We guarantee our pipes to be full weight and gauge. Our brazed tubing is of the best quality, thoroughly brazed and does not split. Our seamless and



brazed tubes are smoothly finished and highly polished and nicked. We carefully wrap both basin and bath supply pipes in pairs, labeling each package, showing the gauge and style of pipe. When you purchase Ampinco basin and bath supply pipes, you will get full weight and gauge tubing.



We advocate that our couplings or connections be used as they are provided with squares to facilitate making up and threaded to fit the pipes. We can supply either light or heavy weight flanges to suit your requirements. The Ampinco Basin or Bath Supplies with fittings complete are what you will eventually use.



Lavatory Supply Pipes

No. 7210

Supply Pipe
to Floor
with Wheel
Handle
Stop and
Offset Air
Chamber
With
No. 7961
Slip Joint
Connection
and With
No. 9280
Flange

**7210****No. 7209**

Supply Pipe
to Floor
With Offset
Air
Chamber
With
No. 7924
Coupling
and With
No. 9280
Flange

**7209****No. 7207**

Supply Pipe
to Floor
With Wheel
Handle
Stop With
No. 7926
Coupling
and With
No. 9280
Flange

**7207****No. 7186**

Supply Pipe
to Floor
With
No. 7945
Coupling
and With
No. 9280
Flange

**7186**

Supply pipes Nos. 7207, 7209 and 7210 are all made of the very best Brazed Brass Tubing, Semi-Annealed, $\frac{3}{8}$ -inch iron pipe size, and carried in stock in 12 and 14 gauges, $26\frac{1}{2}$ inches long over all without connections $27\frac{1}{2}$ inches long with slip joint connections, $27\frac{1}{4}$ inches long with couplings. Threaded on each end $\frac{3}{8}$ -inch iron pipe size.

No. 7186 Basin supply pipe $\frac{3}{8}$ -inch iron pipe size can be supplied in the following stock gauges:

Brown & Sharpe 11 gauge is .090 thick, weight 2.62 lbs. per pair, without couplings.

Brown & Sharpe 12 gauge is .080 thick, weight 2.39 lbs. per pair, without couplings.

Brown & Sharpe 14 gauge is .064 thick, weight 1.95 lbs. per pair, without couplings.

No. 10335 Basin Supply Pipe (*not illustrated*). Straight to floor, Seamless, Semi-Annealed Brass Tubing, full iron pipe size and weight, $26\frac{1}{2}$ inches long without connections, outside diameter .675, thickness .0905, weight 2.68 lbs. per pair, without couplings.

Supply pipes all highly nickeled finish.

Wrapped with fittings assembled, one pair in a package, 50 pairs in a case.

See pages 48 and 49 for illustrations of styles of flanges and pages 46 and 47 for styles of connections.

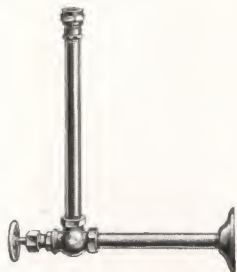
We can supply either 6451 flange or 9280 flange with set screw, and 7961 slip joint connection, or 7945 heavy, or 7926 medium or 7924 light socket connection.

Orders should specify by number styles of flanges and connections wanted.

Connections all interchangeable.



Lavatory Supply Pipes



No. 7165

Supply Pipe to Wall, with Wheel Handle Stop, with No. 7961 Slip Joint Connection and with No. 9280 Flange



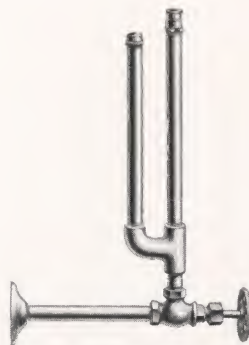
No. 7205

Supply Pipe to Wall, with No. 7924 Coupling and with No. 9280 Flange



No. 7206

Supply Pipe to Wall, with Offset Air Chamber, with No. 7926 Coupling and with No. 9280 Flange



No. 7211

Supply Pipe to Wall, with Offset Air Chamber, with Wheel Handle Stop, with No. 7945 Coupling and with No. 9280 Flange

These pipes are all made of the very best Brazed Brass Tubing, Semi-Annealed, $\frac{3}{8}$ inch iron pipe size. They are carried in stock in 12 gauge, which is .080 thick, or 14 gauge which is .064 thick, threaded for basin cock and wall connections, $\frac{3}{8}$ -inch iron pipe size.

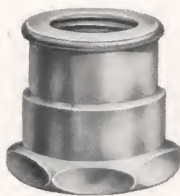
Supply pipes all highly nickeled finish.

Wrapped with fittings assembled, one pair in a package, 50 pairs in a case.



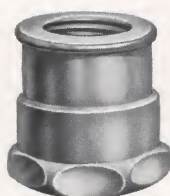
No. 7945

Nickel Plated Coupling
Extra Heavy Weight



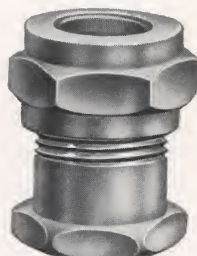
No. 7926

Nickel Plated Coupling
Heavy Weight



No. 7924

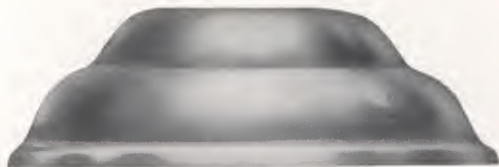
Nickel Plated Coupling
Light Weight



No. 7961

Nickel Plated Slip
Joint Coupling

Our couplings are made of solid bar rod with squares to facilitate making up. Top tapped for $\frac{1}{4}$ inch iron pipe size, bottom for $\frac{3}{8}$ -inch iron pipe size.



No. 6451

Wrought Brass Flange, Nickel Plated
Light Pattern



No. 9280

Wrought Brass Flange, Nickel Plated
Heavy Pattern

We will ship either style of these flanges or couplings with basin supply pipes.

Orders should specify style wanted by number.

This style flange is made of heavy gauge brass and so constructed to bear a person's weight without crushing; not easily dented.

All our Basin Supply Pipes are nicely wrapped in pairs.



Lavatory Supply Pipes

No. 12085

Basin Supply Pipes to Floor

Brazed Brass Tubing, Semi-Annealed
Nickel Plated

$\frac{9}{16}$ inch outside diameter, 30 inches long. Reduced one end to $\frac{7}{8}$ inch in outside diameter for four inches.

Furnished with special wedge shaped rubber washer and friction ring for reduced end, and coupling nut with friction ring and rubber washer for slip end. Coupling nut threaded $\frac{1}{2}$ inch iron pipe size.

Stock Gauges

Brown & Sharpe 16 gauge is .050 thick.

Brown & Sharpe 14 gauge is .064 thick.

No. 12097

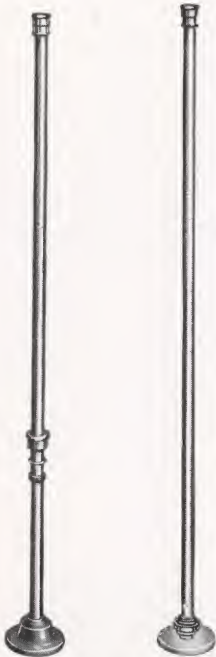
Basin Supply Pipe to Floor

Nickel Plated

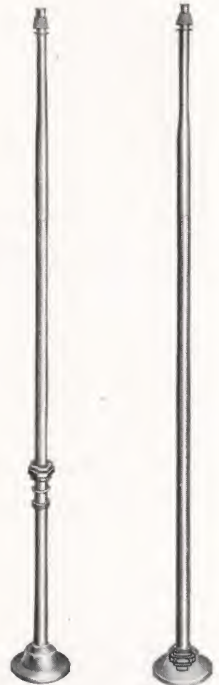
Made of $\frac{9}{16}$ inch outside diameter Brazed Brass Tubing with coupling on one end tapped $\frac{1}{4}$ inch iron pipe size; the other end is provided with slip nut tapped $\frac{1}{2}$ inch iron pipe size and rubber washer. Length over all $27\frac{1}{4}$ inches.

Made in 11, 12 and 14 Brown & Sharpe gauges.

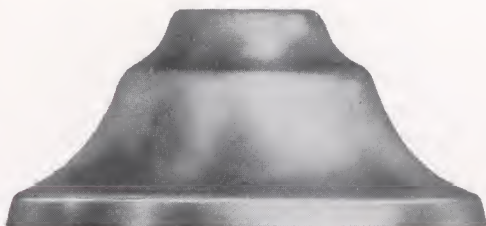
Wrapped complete in pairs, 50 pairs in a case.



No. 12097
Supply Pipe to Floor



No. 12085
Supply Pipe to Floor



No. 5327
Wrought Brass Flange, Nickel Plated
Heavy Pattern



No. 6451
Wrought Brass Flange, Nickel Plated
Light Pattern

This style flange is made of heavy gauge brass, and so constructed to cover connection on floor. Not easily dented.

We will supply either style of these flanges with basin supply pipes.

Orders should specify style wanted by number.

All our Basin Supply Pipes are nicely wrapped in pairs.



Bath Supply Pipes

No. 7867

Bath Supply Pipe

Brazed Brass Tubing, Semi-Annealed
Nickel Plated

$\frac{1}{2}$ inch iron pipe size, 20 $\frac{1}{2}$ inches long.

Stock Gauges

Brown & Sharpe 11 gauge is .090 thick, weight 2.56 lbs. per pair.

Brown & Sharpe 12 gauge is .080 thick, weight 2.32 lbs. per pair.

Brown & Sharpe 14 gauge is .064 thick, weight 1.87 lbs. per pair.

No. 10336

Bath Supply Pipe

Seamless Brass Tubing, Semi-Annealed
Nickel Plated

Full iron pipe size and weight, 20 $\frac{1}{2}$ inches long,
outside diameter .840, thickness .1085,
weight 3.03 lbs. per pair.

These pipes are threaded both ends
 $\frac{1}{2}$ inch iron pipe size by 14 threads.



No. 7867

Bath Supply Pipe
With No. 9280 Flange



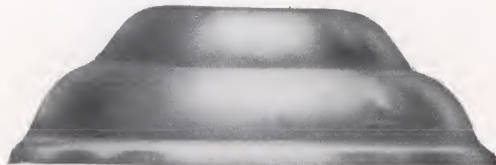
No. 10336

Bath Supply Pipe
With No. 6451 Flange



No. 9280

Wrought Brass Flange, Nickel Plated
Heavy Pattern



No. 6451

Wrought Brass Flange, Nickel Plated
Light Pattern

This style flange is made of heavy gauge brass and so constructed to bear a person's weight without crushing. Not easily dented.

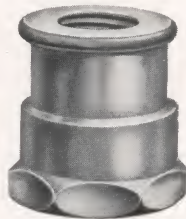
We will supply either style of these flanges with bath supply pipes.
Orders should specify style wanted by number.

All our Basin Supply Pipes are nicely wrapped in pairs.



Reducing Couplings

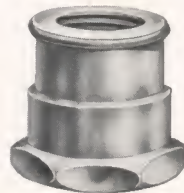
For Lavatory Supply Pipes



No. 7945

Nickel Plated Coupling
Extra Heavy Weight

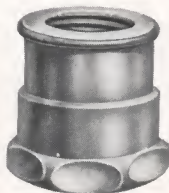
Top tapped $\frac{1}{4}$ -inch iron pipe size.
Bottom tapped $\frac{3}{8}$ -inch iron pipe size.



No. 7926

Nickel Plated Coupling
Heavy Weight

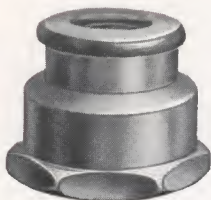
Top tapped $\frac{1}{4}$ -inch iron pipe size.
Bottom tapped $\frac{3}{8}$ -inch iron pipe size.



No. 7924

Nickel Plated Coupling
Light Weight

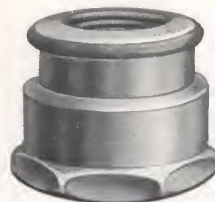
Top tapped $\frac{1}{4}$ -inch iron pipe size.
Bottom tapped $\frac{3}{8}$ -inch iron pipe size.



No. 7990

Nickel Plated Coupling
Heavy Weight

Top tapped $\frac{1}{4}$ -inch iron pipe size.
Bottom tapped $\frac{1}{2}$ -inch iron pipe size.



No. 9231

Nickel Plated Coupling
Heavy Weight

Top tapped $\frac{3}{8}$ -inch iron pipe size.
Bottom tapped $\frac{1}{2}$ -inch iron pipe size.

Our couplings are made of solid bar rod with squares to facilitate making up.

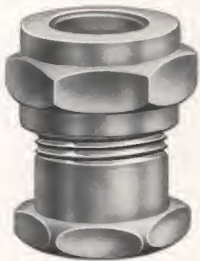
All packed 100 in a box, excepting No. 9231. These are packed 50 in a box.

Illustrations are actual size.



Slip Joint Couplings

For Lavatory Supply Pipes

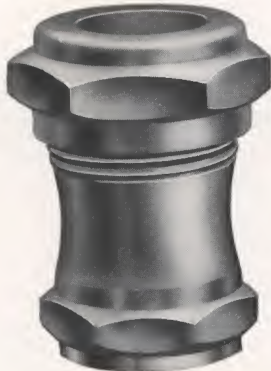


No. 7961

Nickel Plated, Slip Joint Coupling

Nut made to slip $\frac{1}{2}$ or $\frac{9}{16}$ -inch outside diameter tube. Bottom tapped $\frac{3}{8}$ -inch iron pipe size.

Packed 50 per box.

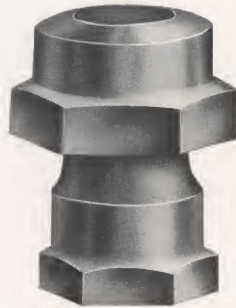


No. 7966

Nickel Plated Coupling

Nut made to slip $\frac{1}{2}$, $\frac{5}{8}$, $\frac{11}{16}$ or $\frac{3}{4}$ -inch outside diameter tube. Bottom tapped $\frac{1}{2}$ -inch iron pipe size.

Wrapped and packed 25 per box, including rubber washers and brass friction rings.



No. 10016

Nickel Plated, Slip Joint Coupling

Nut made to slip $\frac{9}{16}$ -inch outside diameter tube. Bottom tapped $\frac{3}{8}$ -inch iron pipe size.

Wrapped and packed 36 per box.

No. 9384 Coupling (*Not Illustrated*). Same as No. 7966, excepting nut made to slip $\frac{3}{8}$ -inch outside diameter tube. Nut for No. 7966 is tapped $\frac{3}{4}$ -inch iron pipe size. Nut for No. 10016 is tapped $\frac{1}{2}$ -inch iron pipe size.



No. 8239

Nickel Plated, Cast Brass Flanged Coupling for Floor Connection

Nut made to slip $\frac{11}{16}$ -inch outside diameter tube, nut tapped $\frac{3}{4}$ -inch iron pipe size, bottom tapped $\frac{1}{2}$ -inch iron pipe size.

Wrapped and packed 12 per box.



No. 8241

Nickel Plated, Cast Brass Flanged Coupling for Floor Connection

Nut made to slip $1\frac{1}{4}$ or $1\frac{3}{8}$ -inch outside diameter tube, nut tapped $1\frac{1}{4}$ -inch iron pipe size, bottom tapped $1\frac{1}{4}$ -inch iron pipe size.

Wrapped and packed 12 per box.

No. 8240 Flange Coupling (*Not Illustrated*). Same as No. 8239 excepting nut made to slip $\frac{3}{8}$ -inch outside diameter tube.

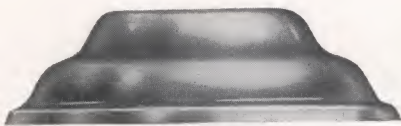
All made with squares to facilitate making up. Best quality heavy rubber washers with every coupling.

Orders should specify slip nut required for each number coupling.

Illustrations are actual size.



Escutcheons or Flanges



No. 6797

Wrought Brass Flange, Light Pattern

No. 6797

Wrought Brass Flange, Light Pattern

Height $\frac{3}{8}$ inch, diameter at base $2\frac{1}{8}$ inches, opening to fit $\frac{3}{8}$ -inch iron pipe size or smaller.

Wrapped one gross in a package.

No. 6451

Wrought Brass Flange, Light Pattern

Height $\frac{7}{8}$ inch, diameter at base $2\frac{1}{2}$ inches, opening to fit $\frac{3}{8}$, $\frac{1}{2}$ and $\frac{3}{4}$ -inch iron pipe size, $\frac{5}{8}$, $\frac{3}{4}$ and $\frac{7}{8}$ inch tubing.

Wrapped two gross in a package.



No. 6451

Wrought Brass Flange, Light Pattern

No. 6450

Wrought Brass Flange, Light Pattern

Height $\frac{7}{8}$ inch, diameter at base 3 inches, opening to fit 1 and $1\frac{1}{4}$ inch iron pipe size, $1\frac{1}{4}$, $1\frac{3}{8}$, $1\frac{1}{2}$ and $1\frac{5}{8}$ inch tubing.

Wrapped one gross in a package.



No. 6450

Wrought Brass Flange, Light Pattern

No. 5609

Wrought Brass Flange
Light Pattern

Height $1\frac{1}{8}$ inches, diameter at base $3\frac{3}{4}$ inches, opening to fit $1\frac{1}{2}$ inch iron pipe size and 2 inch tubing.

Wrapped one-half gross in a package.



No. 5609

Wrought Brass Flange, Light Pattern

Flanges will be furnished nickel plated or polished brass.

Orders should specify size piercing and finish required.

Illustrations are actual size.



Escutcheons or Flanges



No. 9280

Wrought Brass Flange

No. 9280

Wrought Brass Flange, Heavy Pattern

Height $\frac{1}{4}$ inch, diameter at base $2\frac{1}{2}$ inches. Opening to fit $\frac{3}{8}$, $\frac{1}{2}$ and $\frac{3}{4}$ inch iron pipe sizes and $\frac{5}{8}$, $\frac{3}{4}$ and $\frac{7}{8}$ inch tubing.

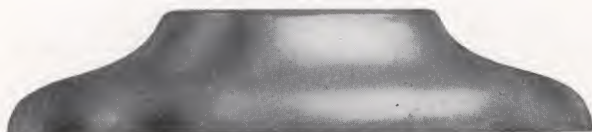
Wrapped one gross in a package.

No. 9279

Wrought Brass Flange
Heavy Pattern

Height $\frac{1}{2}$ inch, diameter at base 3 inches. Opening to fit 1 and $1\frac{1}{4}$ inch iron pipe sizes and $1\frac{1}{4}$, $1\frac{3}{8}$, $1\frac{1}{2}$ and $1\frac{5}{8}$ inch tubing.

Wrapped one gross in a package.



No. 9279

Wrought Brass Flange



No. 10112

Wrought Brass Flange

No. 10112

Wrought Brass Flange
Heavy Pattern

Height $\frac{3}{4}$ inch, diameter at base $3\frac{1}{2}$ inches. Opening to fit $1\frac{1}{2}$ inch iron pipe size and 2 inch tubing.

Wrapped one gross in a package.

Flanges will be furnished nickel plated or polished brass.

These flanges are made of heavy gauge brass and so constructed to bear a person's weight without crushing. Not easily dented.

Orders should specify size piercing and finish required.

Illustrations are actual size.



Escutcheons or Flanges

No. 9280

Wrought Brass Flange With Set Screw
Heavy Pattern

Height $\frac{11}{16}$ inch, diameter at base $2\frac{1}{2}$ inches. Opening to fit $\frac{3}{8}$ and $\frac{1}{2}$ inch iron pipe sizes, and $\frac{5}{8}$ and $\frac{3}{4}$ inch tubing.

Wrapped and packed one-half gross in a box.



No. 9280

Wrought Brass Flange With Set Screw

No. 9279

Wrought Brass Flange With Set Screw, Heavy Pattern

Height $\frac{1}{2}$ inch, diameter at base 3 inches. Opening to fit $\frac{3}{4}$ and 1 inch iron pipe sizes, and $\frac{7}{8}$, $1\frac{1}{4}$ and $1\frac{3}{8}$ inch tubing.

Wrapped and packed one-half gross in a box.



No. 9279

Wrought Brass Flange with Set Screw

No. 10112

Wrought Brass Flange
With Set Screw
Heavy Pattern

Height $\frac{3}{4}$ inch, diameter at base $3\frac{1}{2}$ inches. Opening to fit $1\frac{1}{4}$ and $1\frac{1}{2}$ inch iron pipe sizes, and $1\frac{1}{2}$, $1\frac{5}{8}$ and 2 inch tubing.

Wrapped and packed one-half gross in a box.



No. 10112

Wrought Brass Flange With Set Screw

Flanges will be furnished nickel plated or polished brass.

These flanges are made of heavy gauge brass and so constructed to bear a person's weight without crushing. Not easily dented.

Orders should specify size piercing and finish required.

Spuds are tapped No. 6 by 32 threads. Screws are $\frac{1}{2}$ inch long threaded No. 6 by 32 threads.

Illustrations are actual size.



Escutcheons or Flanges



No. 5324

Wrought Brass Flange for Closet Spud

No. 5324

Wrought Brass Flange for Closet Spud

Height $\frac{1}{2}$ inch,

diameter at base $2\frac{3}{4}$ inches.

Opening to fit $1\frac{1}{4}$ inch spud.

Wrapped one gross in a package.

No. 5323

Wrought Brass Flange for Closet Spud

Height $\frac{5}{8}$ inch,

diameter at base 3 inches.

Opening to fit $1\frac{1}{2}$ inch spud.

Wrapped one gross in a package.



No. 5323

Wrought Brass Flange for Closet Spud

No. 5322

Wrought Brass Flange for
Closet Spud

Height $\frac{3}{4}$ inch,

diameter at base $3\frac{1}{2}$ inches.

Opening to fit 2 inch spud.

*Wrapped one half gross in a
package.*



No. 5322

Wrought Brass Flange for Closet Spud

No. 12136

Wrought Brass Bibb Flange, Polished and Nickeled
or Polished Brass

Height $\frac{5}{16}$ inch,

.085 thick, diameter at base $2\frac{7}{16}$ inches.

Will pierce up to and including $\frac{1}{2}$ inch
bibb size hole.

Wrapped and packed one-half gross in a bundle.



No. 12136

Wrought Brass Bibb Flange, Polished and
Nickeled or Polished Brass

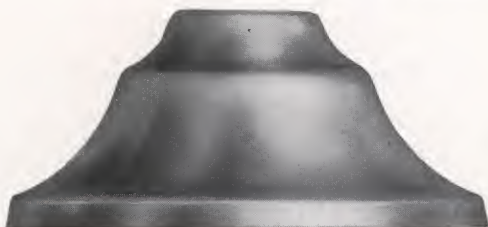
Flanges will be furnished nickel plated or polished brass.

Specify on orders size piercing and finish required.

Illustrations are actual size.



Escutcheons or Flanges



No. 5327

No. 5327

Wrought Brass Flange, Heavy Pattern

Height $1\frac{5}{8}$ inches, diameter at base $2\frac{9}{16}$ inches. Opening to fit $\frac{3}{8}$ and $\frac{1}{2}$ inch iron pipe sizes, and $\frac{3}{4}$ inch tubing.

Wrapped one gross in a package.



No. 7122

No. 7122

Raised Bibb Flange, Wrought Brass

Diameter at base 3 inches. Opening to fit $\frac{1}{2}$, $\frac{5}{8}$ and $\frac{3}{4}$ inch bibb.

Wrapped and packed five gross in a box.



No. 7121

No. 7121

Flat Bibb Flange, Wrought Brass

Diameter at base $2\frac{1}{2}$ inches. Opening to fit $\frac{1}{2}$, $\frac{5}{8}$ and $\frac{3}{4}$ inch bibb.

Wrapped and packed one gross in a box.

Flanges will be furnished nickel plated or polished brass.

Orders should specify size piercing and finish required.

Illustrations are actual size.

Comparison of Iron Pipe and Bibb Sizes With Outside Diameter Holes.

Iron Pipe Size Hole		Outside Diameter Hole	Bibb Size Hole		Outside Diameter Hole
$\frac{1}{8}$ inch,	same as	$\frac{1}{8}$ inch	$\frac{1}{8}$ inch,	same as	$\frac{1}{8}$ inch
$\frac{1}{4}$ inch,	same as	$\frac{1}{4}$ inch	$\frac{1}{4}$ inch,	same as	$\frac{1}{4}$ inch
$\frac{3}{8}$ inch,	same as	$\frac{3}{8}$ inch	$\frac{3}{8}$ inch,	same as	$\frac{3}{8}$ inch
$\frac{1}{2}$ inch,	same as	$\frac{1}{2}$ inch	$\frac{1}{2}$ inch,	same as	$\frac{1}{2}$ inch
1 inch,	same as	$1\frac{5}{16}$ inches	$\frac{3}{4}$ inch,	same as	$1\frac{1}{8}$ inches
$1\frac{1}{4}$ inches,	same as	$1\frac{3}{8}$ inches	$\frac{7}{8}$ inch,	same as	$1\frac{1}{8}$ inches
$1\frac{1}{2}$ inches,	same as	$1\frac{7}{8}$ inches	1 inch,	same as	$1\frac{3}{8}$ inches
2 inches,	same as	$2\frac{3}{8}$ inches			



Chain Stays



No. 6382
Nickel Plated Chain Stay
Cast Brass



No. 6383
Nickel Plated Chain Stay
Cast Brass



No. 6384
Nickel Plated Chain Stay
Cast Brass



No. 5472
Nickel Plated Chain Stay
Wrought Brass

No.	Outside Diameter of Base	Length of Shank Under Base	Thread
5472	1 $\frac{3}{8}$ inches	1 $\frac{5}{8}$ inches	wood screw
6380	$\frac{3}{8}$ inch	$\frac{3}{8}$ inch	
6382	1 $\frac{1}{8}$ inches	2 $\frac{1}{4}$ inches	
6383	1 $\frac{1}{2}$ inches	2 $\frac{1}{8}$ inches	
6384	1 $\frac{1}{2}$ inches	2 $\frac{1}{8}$ inches	

Packed one dozen in a box.

Illustrations are actual size.



No. 6380
Nickel Plated Chain Stay
with Wood Screw
Wrought Brass



Basin and Bath Cock Hole Covers



No. 6436

**Cock Hole Cover for Basin
Polished and Nickeled**

Cast cover $1\frac{3}{4}$ inches diameter, bolt $2\frac{7}{16}$ inches long under head, threaded $\frac{3}{16}$ —28. Wrought square nut, tapped $\frac{3}{16}$ —28.



No. 10221

**Cock Hole Cover for Basin
Polished and Nickeled**

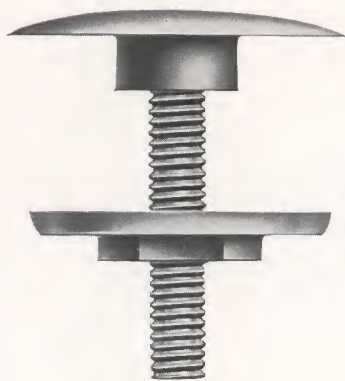
Wrought cover $1\frac{3}{4}$ inches diameter, bolt $2\frac{1}{16}$ inches long under head, threaded $\frac{3}{16}$ —28. Wrought square nut, tapped $\frac{3}{16}$ —28.



No. 6386

**Cock Hole Cover for Basin
Polished and Nickeled**

Cast cover $1\frac{1}{2}$ inches diameter, bolt $2\frac{7}{16}$ inches long under head, threaded $\frac{3}{16}$ —28. Wrought square nut, tapped $\frac{3}{16}$ —28.



No. 7173

**Cock Hole Cover for Bath
Polished and Nickeled**

Cast cover $1\frac{3}{4}$ inches diameter, bolt $1\frac{1}{16}$ inches long under head, threaded $\frac{5}{16}$ —18. Cast hexagon flanged nut, tapped $\frac{5}{16}$ —18.



No. 10114

**Cock Hole Cover for Bath
Polished and Nickeled**

Wrought cover $1\frac{3}{4}$ inches diameter, bolt $1\frac{3}{4}$ inches long under head, threaded $\frac{5}{16}$ —18. Wrought hexagon flanged nut, tapped $\frac{5}{16}$ —18.

*All packed one dozen in a box.
Illustrations are actual size.*



Clamps



No. 6221

Cast Basin Clamp, Unfinished Brass
Packed one-half gross per box.



No. 6844

Cast Basin Clamp, Unfinished Brass
Packed one gross per box.



No. 5562

Basin Clamp, Wrought
Brass, Unfinished
Packed one gross per box.



No. 6416

Basin Clamp, Cast
Brass, Unfinished
Packed one gross per box.



No. 6837 Bolt

No. 6729 Nut
Unfinished

Bolt $1\frac{1}{2}$ inches long
under head, diameter $\frac{1}{4}$
inch, threaded 13-20.
Nut tapped 13-20.

Bolts and nuts not assembled.

Packed one gross per box.

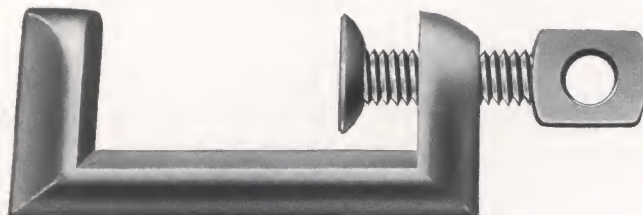


No. 6728 Bolt

No. 6729 Nut
Unfinished

Bolt $1\frac{1}{4}$ inches long
under head, diameter $\frac{1}{4}$
inch, threaded 13-20.
Nut tapped 13-20.

Orders for basin clamps shipped without bolts and nuts unless otherwise specified.

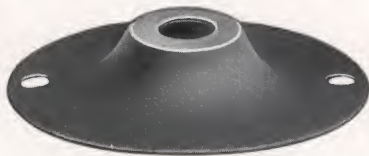


No. 7092

Brass Hopper Clamp, Unfinished
Extension $1\frac{5}{8}$ inches. Shipped in bulk.
Illustrations are actual size.



Hopper Cock Plate



No. 6723

Hopper Cock Plate Wrought Brass

Diameter 2½ inches. Polished and Nickeled.

Wrapped in tissue, 12 in a bundle.

Trap Cover



No. 6748

Nickel Plated Brass Trap Cover

Diameter 6 inches, height at center ¾ inch. Manufactured of heavy brass and highly finished.

Wrapped 24 in a package.

Expansion Bolts



No. 9358



No. 9362



No. 9361



No. 9360



No. 9359

Round head brass screws, nickel plated; sleeves and nuts, dipped brass.

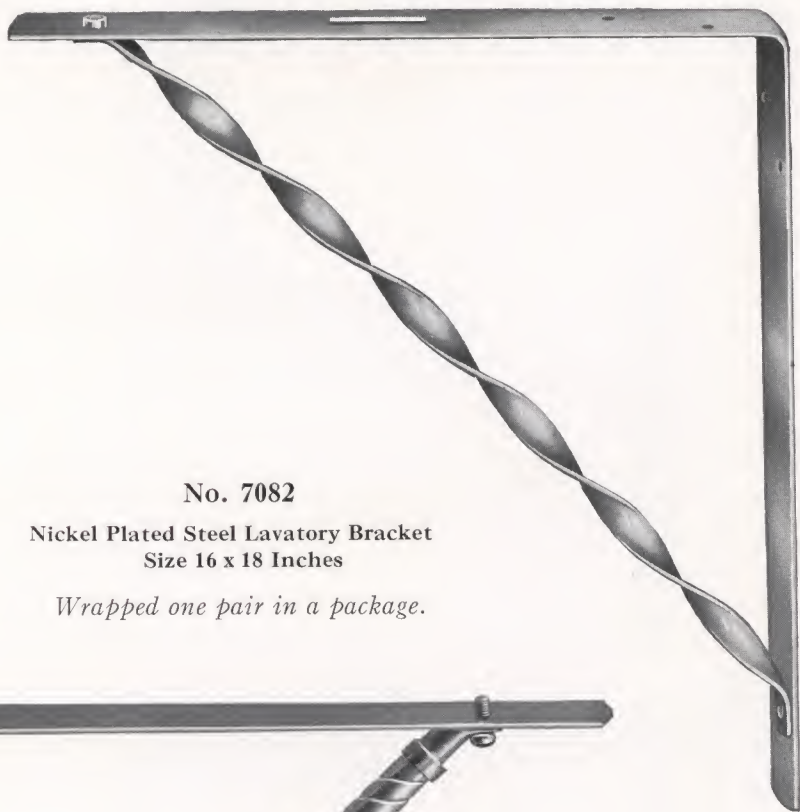
Flat head screws not carried in stock. Will make for special orders of sufficient quantity.

No.	Length of Sleeve	Length of Screw	Size of Screw	Size Hole Required	Number in a box regular packing
9358	1¾ inches	2 inches	No. 10	¾ inch	200
9362	1½ inches	1¾ inches	No. 10	¾ inch	250
9361	1¼ inches	1½ inches	No. 10	¾ inch	250
9360	1 inch	1¼ inches	No. 10	¾ inch	300
9359	¾ inch	1⅛ inches	No. 10	¾ inch	300

Illustrations are actual size, excepting No. 6748.



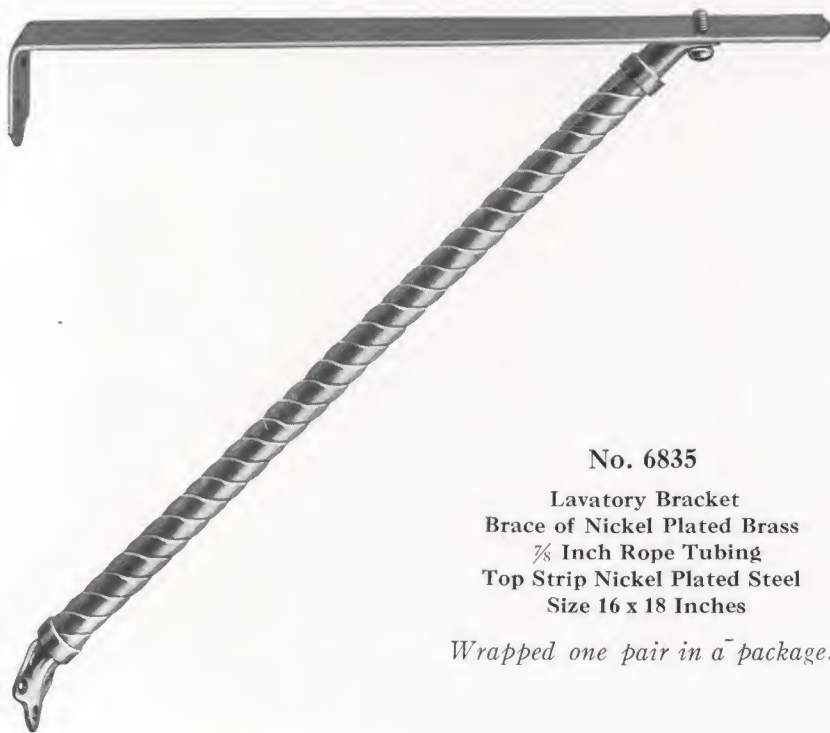
Lavatory Brackets



No. 7082

Nickel Plated Steel Lavatory Bracket
Size 16 x 18 Inches

Wrapped one pair in a package.



No. 6835

Lavatory Bracket
Brace of Nickel Plated Brass
 $\frac{7}{8}$ Inch Rope Tubing
Top Strip Nickel Plated Steel
Size 16 x 18 Inches

Wrapped one pair in a package.



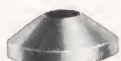
Repairs for Fuller Work



No. 10123
 $\frac{3}{8}$ Inch



No. 5441
 $\frac{1}{2}$ Inch



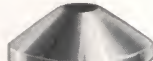
No. 10379
 $\frac{9}{16}$ Inch



No. 5442
 $\frac{5}{8}$ Inch



No. 10330
 $\frac{11}{16}$ Inch



No. 7083
 $\frac{3}{4}$ Inch

Brass end caps for Fuller balls.

Shipped in bulk.



No. 10014

Straight Brass Refill Tube, Unfinished

Fully annealed. Length 18 inches, outside diameter $\frac{1}{4}$ inch, threaded one end $\frac{1}{4}$ —40.

Shipped in bulk.



No. 5842

Brass Waste Tube for Stop and Waste Cocks, Unfinished

Length $2\frac{1}{4}$ inches, outside diameter $\frac{1}{4}$ inch, threaded $\frac{1}{4}$ —26.

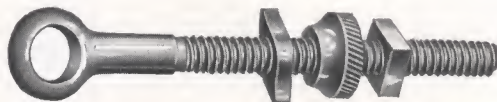
Shipped in bulk.



No. 7089

Eccentric Spindle

For Fuller Basin Cocks. Polished and Nicked or Unfinished Brass. Size for $\frac{1}{2}$ or $\frac{3}{8}$ inch Fuller Bibb.



No. 10390 Stem

No. 10381 Jamb Nut

No. 10380 Wing Nut

No. 10388 Square Nut

Unfinished Brass

Adjustable stem with nuts assembled for Fuller Basin Cock. Size for $\frac{1}{2}$ or $\frac{3}{8}$ inch Fuller bibb, hole in stem $\frac{9}{32}$ inch; stem threaded $\frac{3}{16}$ —24.

Nos. 10380, 10381, 10388 nuts tapped $\frac{3}{16}$ —24.

Eccentrics and stems shipped in bulk.

Illustrations are actual size.



Urinal Stall Fittings



No. 7094

Stall Knee or Angle, Cast Brass
Nickel Plated,

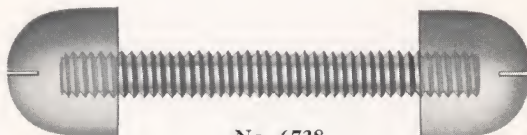
Size 2 by 2 inches, one inch wide.

Wrapped and packed 108 in a box.



No. 6738

Threaded Bolt



No. 6738

Double Head Bolt with No. 5479 Nuts

No. 6738 threaded bolt is carried in stock in lengths $1\frac{3}{4}$, 2, $2\frac{1}{8}$, $2\frac{1}{4}$ and $2\frac{1}{2}$ inches.

Packed one gross in a box.



No. 5458

Nickel Plated Head



No. 5480

Nickel Plated Head



No. 5479

Nickel Plated Head



No. 5476

Nickel Plated Head

Heads as shown above are all tapped $\frac{1}{4}$ —20 and are styles which can be substituted for No. 5479 on No. 6738 bolt.

All orders should specify style of head wanted by number and length of bolt required.

Illustrations are actual size.



Pipe Holders for Supply and Flush Pipes



No. 7980

Adjustable Supply Pipe Holder
Cast Brass, Nickel Plated

Extension from center of holder to end of tube 4 inches.

Will furnish to slip $\frac{3}{8}$ -inch iron pipe size, $\frac{5}{8}$ inch and $1\frac{1}{8}$ inch outside diameter tubing.

Wrapped and packed 72 in a box.



No. 7981

Adjustable Flush Pipe Holder, With Rubber Bumper
Cast Brass, Nickel Plated

Extension from center of holder to end of tube 4 inches.

Will furnish to slip $1\frac{1}{4}$ inch outside diameter tube.

Wrapped and packed 50 in a box.



No. 9254

Adjustable Flush Pipe Holder, With Rubber Bumper
Cast Brass, Nickel Plated

Extension from center of holder to end of tube 4 inches.

Will furnish to slip $1\frac{3}{8}$ inch outside diameter tube.

Wrapped 36 in a box.



No. 7982

Adjustable Flush Pipe Holder, With Rubber Bumper
Cast Brass, Nickel Plated

Extension from center of holder to end of tube 4 inches.

Will furnish to slip $1\frac{1}{2}$ inch outside diameter tube.

Wrapped and packed 36 in a box.

Illustrations are actual size.



Pipe Holders



No. 10360

Split Ring Pipe Hanger for Concealed Screw

Cast brass, polished brass or nickel plated finish. Will slip $\frac{3}{4}$ -inch iron pipe size pipe. Center to back measurement $1\frac{1}{4}$ inches.

Wrapped and packed 50 in a box.



No. 10361

Split Ring Pipe Hanger for Concealed Screw

Cast brass, polished brass or nickel plated finish. Will slip $\frac{1}{2}$ -inch iron pipe size pipe. Center to back measurement one inch.

Wrapped and packed 72 in a box.



No. 10362

Split Ring Pipe Hanger for Concealed Screw

Cast brass, polished brass or nickel plated finish. Will slip $\frac{3}{8}$ -inch iron pipe size pipe. Center to back measurement $\frac{7}{8}$ inch.

Wrapped and packed 100 in a box.



No. 10365

Split Ring Pipe Hanger for Concealed Screw

Cast brass, polished brass or nickel plated finish. Will slip $\frac{3}{4}$ -inch outside diameter pipe. Center to back measurement $\frac{7}{8}$ inches.

Wrapped and packed 100 in a box.

Illustrations are actual size.



Strainers for Wastes and Overflows



No. 10127

**Cast Outlet Strainer
Polished and Nickeled**

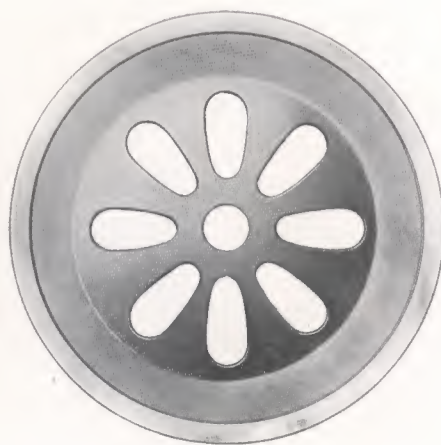
Diameter of flange $2\frac{1}{8}$ inches. Length under flange 1 inch. Threaded $1\frac{3}{4}$ inches by 16 threads. This strainer is used in bottom outlet of waste and overflows.



No. 8022

**Wrought Overflow Strainer
Nickel Plated**

Light pattern. Outside diameter $3\frac{1}{8}$ inches.



No. 10141

**Cast Overflow Strainer
Polished and Nickeled**

Outside diameter $3\frac{1}{8}$ inches.

No. 10425. Overflow Strainer. (*Not illustrated.*) Nickel plated. Heavy wrought pattern. Outside diameter $3\frac{1}{8}$ inches.

Strainers Nos. 8022, 10141 and 10425 used with overflow outlet of waste and overflow.



Strainers for Sinks and Laundry Trays



No. 10006

Plug Sink Strainer, With Rubber Stopper
Polished and Nickel Plated

Outside diameter $4\frac{3}{8}$ inches, hole center to center $3\frac{7}{8}$ inches. Size of stopper $1\frac{1}{2}$ inches.

Wrapped in tissue, packed 24 in a box.



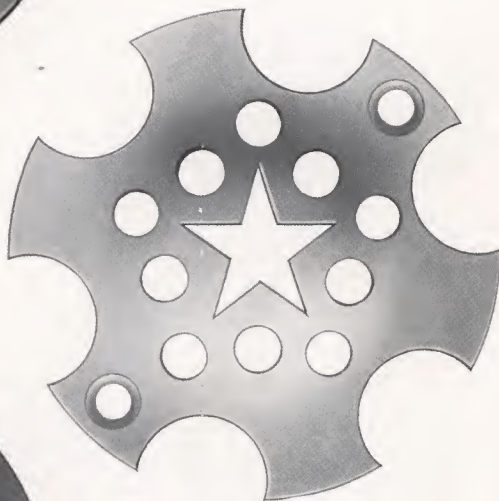
No. 10006

Plug Sink Strainer, With Rubber Stopper

No. 6078

Cast Convex Strainer, Unfinished

Shipped in bulk.



No. 6078

Strainer



No. 10215

Strainer

No. 10215

Strainer for Laundry Tray

Dipped Brass

Outside diameter $3\frac{1}{8}$ inches. Holes center to center $2\frac{3}{4}$ inches.

Shipped in bulk.

Illustrations are actual size, excepting No. 10006.



Rubber Stoppers



No. 10404
1½ Inch



No. 10405
1¾ Inch



No. 10400
1½ Inch



No. 10403
1½ Inch



No. 10399
1 Inch

Best Quality Rubber

Cored Pattern with Nickel Plated
Brass Trimmings



No. 10402
1¾ Inch



No. 10398
¾ Inch



No. 10401
1¼ Inch



No. 10406
2-Inch



No. 10397
¾ Inch

Measurement given is the diameter of the bottom end.

Rubber stoppers are boxed in dozens.

Illustrations are actual size.



Closet Screws



No. 6781

Brass Closet Screw



No. 6724

Iron Closet Screw, Brass Plated

Closet screws are threaded $\frac{1}{4}$ inch by 20 threads one end. Wood screw thread on other end. Screws are $2\frac{3}{8}$ inches long.

Shipped in bulk or packed loose, one gross in a box.

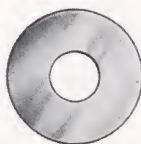
See pages 66 and 67 for Closet Screws in Combinations.

Closet Washers



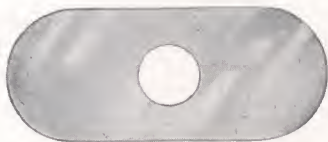
No. 5474

Round Washer



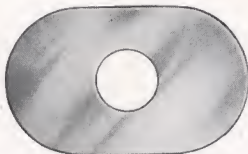
No. 5648

Round Washer



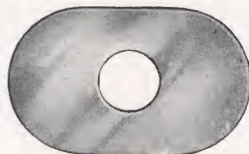
No. 5456

Oval Washer



No. 5586

Oval Washer



No. 10313

Heavy Oval Washer

All washers pierced $\frac{5}{16}$ inch outside diameter hole. These washers are well made and nicely finished in nickel.

Shipped in bulk or packed loose, one gross in a box.





See pages 66, 67 and 69 for Closet Washers in Combinations.

Illustrations are actual size



Screws, Washers and Heads for Closets

In Attractive Combinations

 <p>Head.....No. 5457 Screw (brass)..No. 6781 Screw (iron)..No. 6724 Washer.....No. 5586</p>	 <p>Head..No. 6070 Screw (brass)...No. 6781 Screw (iron)....No. 6724 Washer No. 5648</p>	 <p>Head....No. 6130 Screw (brass)....No. 6781 Screw (iron)....No. 6724 Washer..No. 5474</p>	 <p>Head.....No. 6027 Screw (brass).....No. 6781 Screw (iron).....No. 6724 Washer.....No. 5456</p>
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Removable heads, tapped $\frac{1}{4}$ —20; screws, machine thread $\frac{1}{4}$ —20, length $2\frac{3}{8}$ inches; washers pierced $\frac{5}{16}$ inch hole.

Combinations, as follows, can be furnished from our stock.

Nickel Plated Nut	Nickel Plated Washer	Brass Screw	or Iron Screw Brass Plated	Nickel Plated Nut	Nickel Plated Washer	Brass Screw	or Iron Screw Brass Plated
5457	5474	6781	6724	6130	5474	6781	6724
5457	5456	6781	6724	6130	5456	6781	6724
5457	5586	6781	6724	6130	5586	6781	6724
5457	5648	6781	6724	6130	5648	6781	6724
6070	5474	6781	6724	6027	5474	6781	6724
6070	5456	6781	6724	6027	5456	6781	6724
6070	5586	6781	6724	6027	5586	6781	6724
6070	5648	6781	6724	6027	5648	6781	6724

Combinations can be shipped one gross of each part in separate boxes, or in bulk in quantities of one thousand or more of each part.

Illustrations are actual size.



Screws, Washers and Heads for Closets

In Attractive Combinations



Head.....No. 5458
 Screw (brass)....No. 6781
 Screw (iron)No. 6724
 Washer.....No. 5586



Head.....No. 10300
 Screw (brass)....No. 6781
 Screw (iron)No. 6724
 Washer.....No. 5586



Head.....No. 10453
 Screw (brass)....No. 6781
 Screw (iron)No. 6724
 Washer.....No. 5474

Removable heads, tapped $\frac{1}{4}$ —20; screws, machine thread $\frac{1}{4}$ —20, length $2\frac{3}{8}$ inches; washers pierced $\frac{1}{16}$ inch hole.

Combinations, as follows, can be furnished from our stock.

Nickel Plated Nut	Nickel Plated Washer	Brass Screw	or Iron Screw Brass Plated	Nickel Plated Nut	Nickel Plated Washer	Brass Screw	or Iron Screw Brass Plated
10300	5474	6781	6724	10453	5474	6781	6724
10300	5456	6781	6724	10453	5456	6781	6724
10300	5586	6781	6724	10453	5586	6781	6724
10300	5648	6781	6724	10453	5648	6781	6724
5458	5474	6781	6724				
5458	5456	6781	6724				
5458	5586	6781	6724				
5458	5648	6781	6724				

Combinations can be shipped one gross of each part in separate boxes, or in bulk in quantities of one thousand or more of each part.

Illustrations are actual size.



Bolts for Closet Flanges



No. 6026
Bolt

Unfinished Wrought Brass
Length under head $1\frac{1}{2}$ inches.
Threaded $\frac{1}{4}$ —20.



No. 10142
Bolt

Unfinished Wrought Brass
Length under head $2\frac{1}{2}$ inches.
Threaded $\frac{1}{4}$ —20.



No. 6842
Bolt

Unfinished Cast Brass
Length under head $1\frac{1}{2}$ inches.
Threaded $\frac{1}{4}$ —20.



No. 6843
Bolt

Unfinished Cast Brass
Length under head $1\frac{1}{8}$ inches.
Threaded $\frac{1}{4}$ —20.



No. 6794
Bolt

Unfinished Cast Brass
Length under head $1\frac{1}{8}$ inches.
Threaded $\frac{1}{4}$ —20.

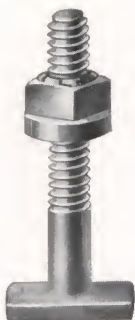
Shipped in bulk, or packed 150 in a box.

Illustrations are actual size.



Bolts, Washers and Heads for Closet Flanges

In Attractive Combinations



No. 6842 Cast Bolt
No. 5458 Head

Bolt $1\frac{1}{2}$ inches long under flange.



No. 10142 Wrought Bolt
No. 6027 Head

Bolt $2\frac{1}{2}$ inches long under flange.



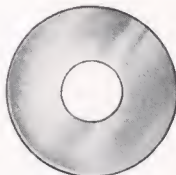
No. 6026 Wrought Bolt
No. 5458 Head

Bolt $1\frac{1}{2}$ inches long under flange.



No. 6794 Cast Bolt
No. 5458 Head

Bolt $1\frac{1}{8}$ inches long under flange.



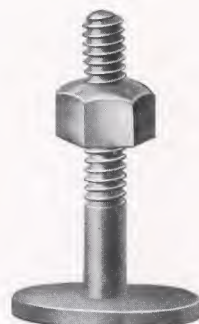
No. 5474
Washer



No. 5648
Washer

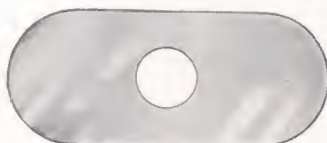
We can supply the following combinations assembled with any one of the washers illustrated, all boxed or bulk.

Head	with	Bolt
5458		6026
6027		6026
5457		6026
5458		10142
5457		10142
5458		6794
5458		6842
5458		6843
6027		10142

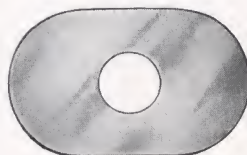


No. 6843 Cast Bolt
No. 5457 Head

Bolt $1\frac{5}{8}$ inches long under flange.



No. 5456
Washer



No. 5586
Washer

Size hole in all the washers is $\frac{5}{16}$ inch.

Bolts threaded $\frac{1}{4}$ —20. Heads tapped $\frac{1}{4}$ —20.
Bolts Unfinished, Heads and Washers Nickel Plated.

Illustrations are actual size.



Nuts or Heads



No. 6027 Head
Nickel Plated



No. 10300 Head
Nickel Plated



No. 6130 Head
Nickel Plated



No. 10453 Head
Nickel Plated



No. 5457 Head
Nickel Plated



No. 6070 Head
Nickel Plated



No. 5458 Head
Nickel Plated



No. 10060 Head
Nickel Plated



No. 5480 Head
Nickel Plated



No. 10312 Head
Nickel Plated



No. 5479 Head
Nickel Plated

Heads as shown are all tapped $\frac{1}{4}$ —20, nicely finished and nickeled.

Nos. 5457, 5458 and 6027 can be furnished tapped through when so ordered.

Wrapped and packed one gross in a box. Nos. 5457, 5458, 6027, 6070 and 10300 shipped in bulk in quantities of one thousand or more when so ordered.

See pages 66, 67 and 69 for combinations.

Illustrations are actual size.



Slip Nuts

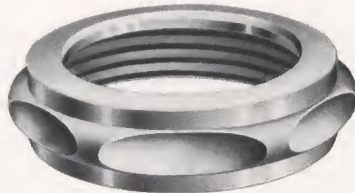


No. 10434

**Wrought Brass Hexagon Slip Nut
Nickel Plated**

Tapped 2 inch iron pipe size, size of hole 2 inches.

Wrapped and packed 10 in a package.



No. 10498

**Cast Brass Hexagon Slip Nut
Nickel Plated**

Tapped $1\frac{1}{4}$ inch iron pipe size, size of hole $1\frac{1}{4}$ or $1\frac{3}{8}$ inches.

Wrapped and packed 100 in a box.

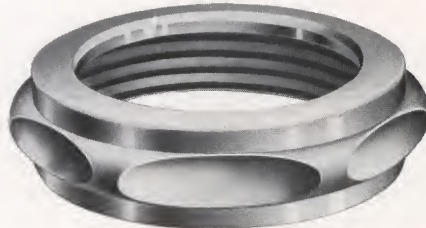


No. 12064

**Wrought Brass Hexagon Slip Nut
Nickel Plated**

Tapped $1\frac{1}{2}$ inch iron pipe size, size of hole $1\frac{1}{4}$, $1\frac{3}{8}$ or $1\frac{1}{2}$ inches.

Wrapped and packed 72 in a box.

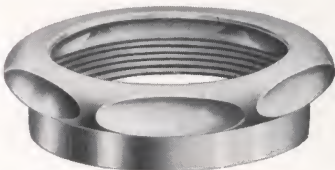


No. 12063

**Cast Brass Hexagon Slip Nut
Nickel Plated**

Tapped $1\frac{1}{2}$ inch iron pipe size, size of hole $1\frac{1}{4}$, $1\frac{3}{8}$ or $1\frac{1}{2}$ inches.

Wrapped and packed 72 in a box.



No. 12065

**Wrought Brass Hexagon Slip Nut
Nickel Plated**

Tapped $1\frac{1}{4}$ inch iron pipe size, size of hole $1\frac{1}{4}$ or $1\frac{3}{8}$ inches.

Wrapped and packed 100 in a box.



No. 12162

**Cast Brass Hexagon Slip Nut
Nickel Plated**

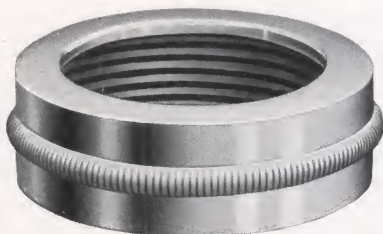
Tapped 2 inch iron pipe size, size of hole 2 inches.

Wrapped and packed 10 in a package.

Illustrations are actual size.



Slip Nuts



No. 6438

Slip Nut for Closet Spud
Cast Brass, Nickel Plated

Size of spud $1\frac{1}{2}$ inches, size of hole $1\frac{3}{8}$ or $1\frac{1}{2}$ inches.

Wrapped and packed 72 in a box.



No. 7959

Slip Nut for Closet Spud
Cast Brass, Nickel Plated

Size of spud $1\frac{1}{4}$ inches, size of hole $1\frac{1}{4}$ or $1\frac{3}{8}$ inches.

Wrapped and packed 100 in a box.



No. 10319

Slip Nut with
Rubber Washer
and Brass Fol-
lower

Tapped $\frac{1}{2}$ inch iron pipe size, size of hole $\frac{1}{2}$ or $\frac{9}{16}$ inch.

Wrapped and packed 100 in a box.

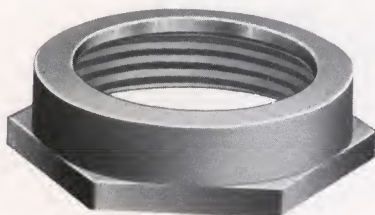


No. 10140

Cast Brass Nut for Rubber
Elbow for Closet

Light pattern, unfinished. Tapped $1\frac{1}{4}$ inch iron pipe x $1\frac{5}{8}$ inch hole.

Shipped in bulk.



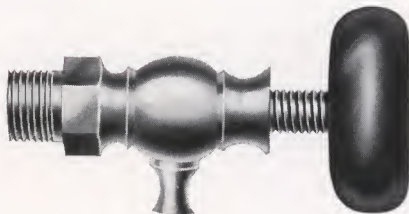
No. 6117

Cast Brass Nut for Rubber
Elbow for Closet

Heavy pattern, unfinished. Tapped $1\frac{1}{4}$ inch iron pipe x $1\frac{5}{8}$ inch hole.

Shipped in bulk.

Radiator Valves



No. 6038

Wood Wheel Air Valve
Polished and Nickered

Wrapped and packed 12 in a box.



No. 12105 Key Air Valve
With Key

Polished and Nickered

Wrapped and packed 24 valves with 2 keys in a box.



Illustrations are actual size.



Bath Spray Heads



No. 8023

Spray Head

Diameter 3½ Inches, Polished and Nickerled

Wrapped in tissue, 6 in a box, 384 in a case.



No. 8024

Spray Head

Diameter 2½ Inches, Polished and Nickerled

Wrapped in tissue, 12 in a box, 144 in a case.

These spray heads are made of brass, highly nickel plated.

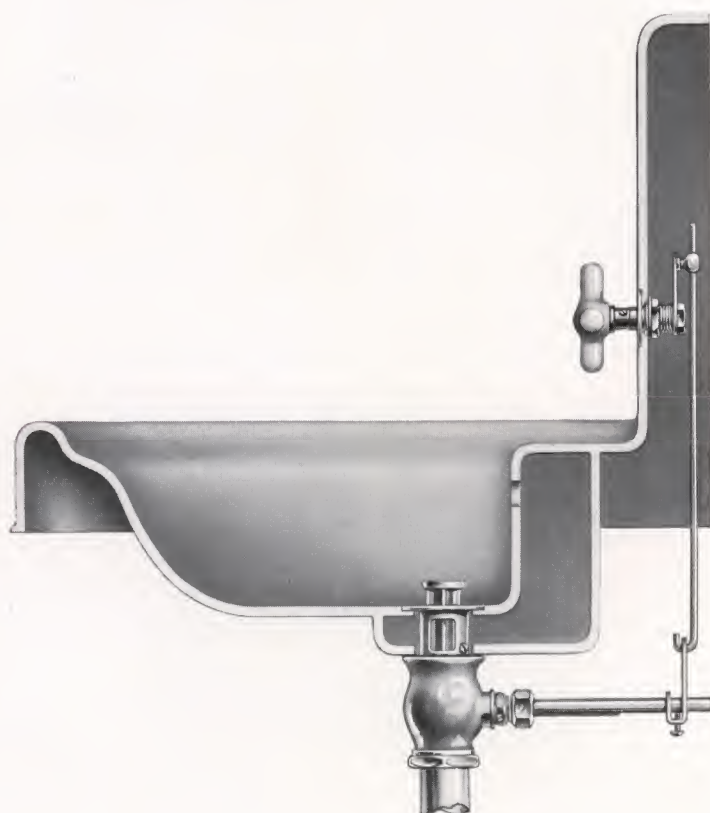
We do not furnish rubber rings.

Illustrations are actual size.



Brass Trimmings for Enameled Ware

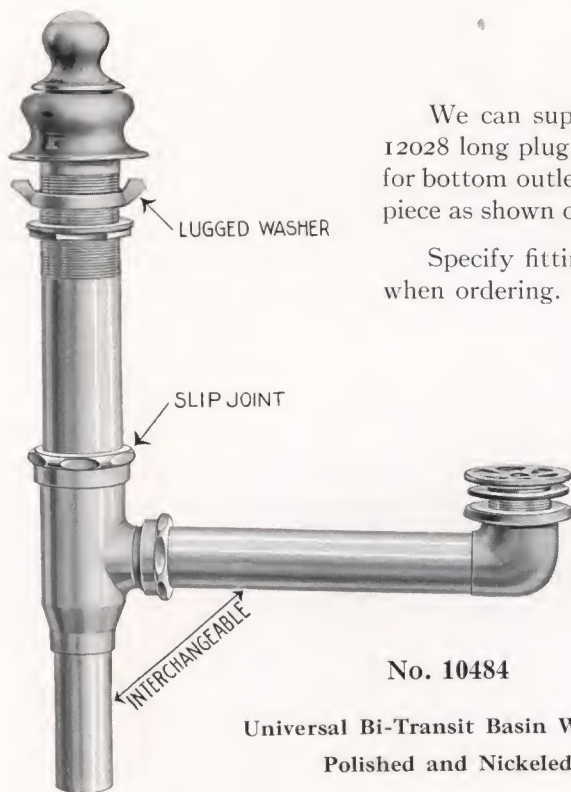
THE manufacturer of enameled iron, vitreous china or pottery ware requires well designed and finely finished brass trimmings to complete his product. We employ the most skilled mechanics for making our tools for our product in this line, and the best platers that can be obtained to produce the highest quality of nickel-plated work.



We are specialists in the manufacture of strainers, and while the following pages show our stock line of these fittings, we are prepared to manufacture special designs in large quantities. Our facilities are at your command and we especially desire that you advise us of your requirements.



Basin Wastes



We can supply this Waste with No. 12028 long plug or No. 12029 short plug for bottom outlet, or No. 12122 long tail piece as shown on page 78.

Specify fittings required by number when ordering.

No. 10484

Universal Bi-Transit Basin Waste
Polished and Nickerled

THE Universal fits any lavatory made by any manufacturer; its five points of adjustment prove its name—UNIVERSAL.

Every part is wrought—the only guarantee against sand holes—the only way to provide positively for a clean, sanitary waterway.

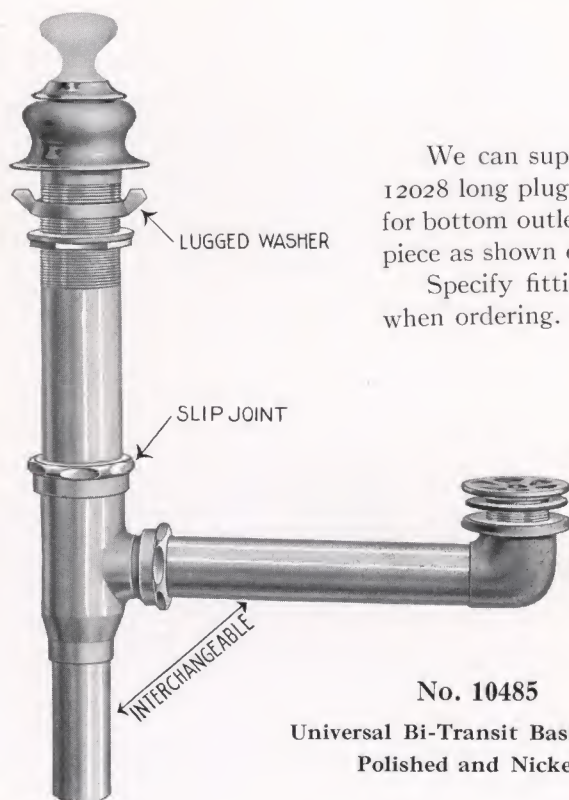
The loose ring with two points of contact insures a quick, sure method of straddling “bumps” on lavatories so that the waste can be locked up straight.

It is supplied with long plugs for porcelain, or short plugs for enameled iron or vitreous ware; with plain china knobs or china index button.

—Continued on page 76.



Basin Wastes



We can supply this Waste with No. 12028 long plug or No. 12029 short plug for bottom outlet, or No. 12122 long tail piece as shown on page 78.

Specify fittings required by number when ordering.

No. 10485

**Universal Bi-Transit Basin Waste
Polished and Nickerled**

The tee is provided with slip joint so that the waste can be quickly put on without making any cuts except in the very rarest cases.

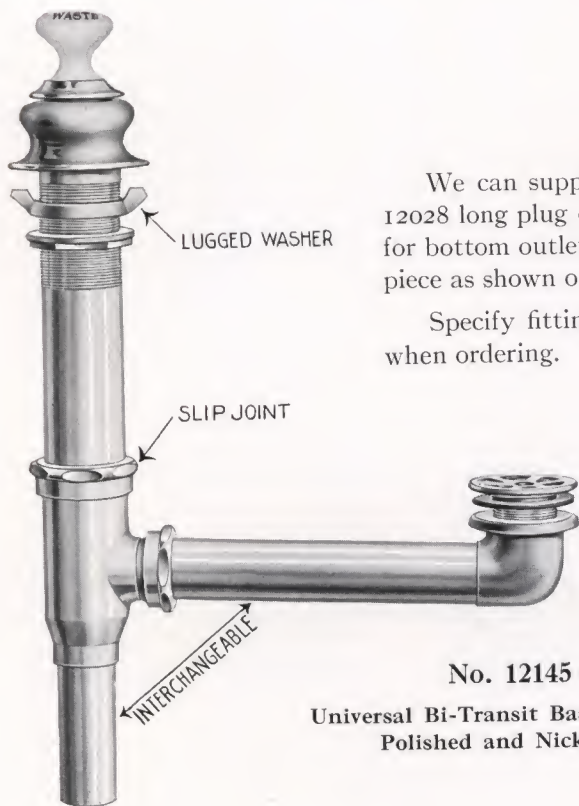
The tail piece is interchangeable with the bottom ell tube. This makes possible the use of a long tail piece and a short ell tube without any additions or cuts as in the case of a "D" bowl.

This method of adjustment from the *bottom* of the overflow tube is exclusive with the UNIVERSAL, and is the first real improvement and advantage ever offered by any manufacturer in this type of Bi-Transit Waste.

Continued on page 77.



Basin Wastes



We can supply this Waste with No. 12028 long plug or No. 12029 short plug for bottom outlet, or No. 12122 long tail piece as shown on page 78.

Specify fittings required by number when ordering.

No. 12145

Universal Bi-Transit Basin Waste
Polished and Nickered

This *bottom* adjustment feature enables the Waste to fit any depth of bowl, without any threading or cutting, so that full depth of water is secured in bowl.

Adjustments at top of overflow tube as provided by all other Bi-Transit Wastes, except the UNIVERSAL, permit no more water in a deep bowl than in a shallow bowl.

The UNIVERSAL cannot leak because the same die makes the bottom of the overflow tube and the seat into which it fits—the only sure method of making an absolutely tight joint—far better, even, than the so-called ground joints of cast parts.

The smooth highly polished finish of the UNIVERSAL puts it in a class by itself so far as appearance goes, and then there is the added advantage of knowing that it is positively sanitary.



Basin Waste Fittings



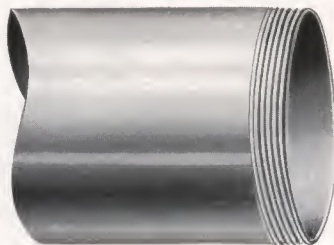
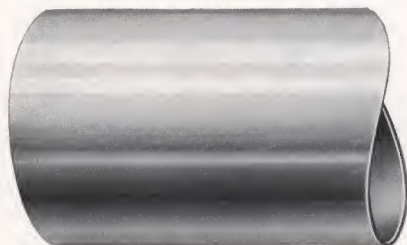
No. 12028
Plug for Bottom Outlet

Polished and nickeled. Diameter across top $2\frac{5}{8}$ inches. Diameter threaded part $1\frac{1}{4}$ inches, length $2\frac{1}{8}$ inches, threaded 14 threads.



No. 12029
Plug for Bottom Outlet

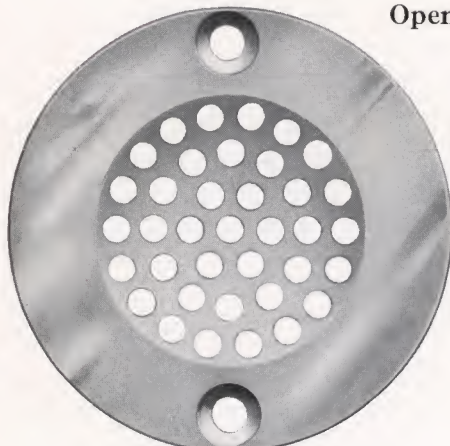
Polished and nickeled. Diameter across top $2\frac{5}{8}$ inches. Diameter threaded part $1\frac{1}{4}$ inches, length $1\frac{1}{4}$ inches, threaded 14 threads.



No. 12122
Bottom Outlet Tube or Tail Piece

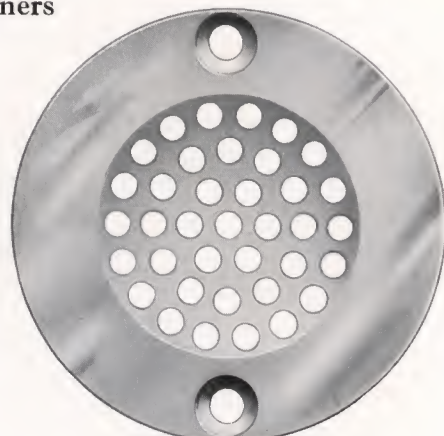
Polished and nickeled. Outside diameter $1\frac{1}{4}$ inches, length 12 inches, Brown & Sharpe gauge No. 22.

Open Sink Strainers



No. 7960
Open Sink Strainer

Nickel plated. Outside diameter $4\frac{5}{8}$ inches. Bolt holes, center to center, $3\frac{3}{8}$ inches.



No. 9249
Open Sink Strainer

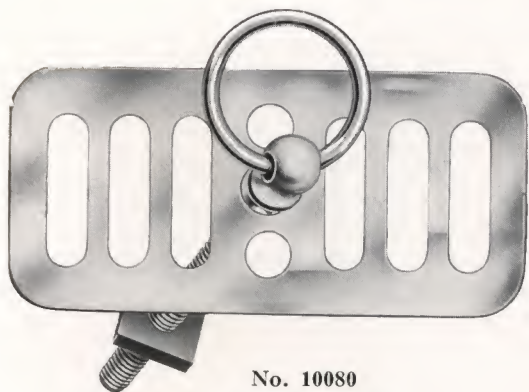
Nickel plated. Outside diameter $4\frac{1}{2}$ inches. Bolt holes, center to center, $3\frac{5}{8}$ inches.

Strainers wrapped in tissue 24 in a package.

We manufacture in quantities, special sink strainers with lock nut, coupling nut and tail piece complete, such as are used by enameled ware manufacturers for one piece roll rimmed sinks.



Lavatory Strainers



No. 10080
Lavatory Strainer
Nickel Plated

Complete with chain stay. Size of strainer $2\frac{5}{8}$ inches long by $1\frac{1}{4}$ inches wide. Chain stay $2\frac{1}{2}$ inches long under head.

Wrapped in tissue, packed 72 in a box.



No. 10078
Lavatory Strainer
Nickel Plated

Complete with chain stay. Size of strainer 2 inches long by $1\frac{1}{4}$ inches wide. Chain stay $2\frac{1}{2}$ inches long under head.

Wrapped in tissue, packed 72 in a box.

Chain stays threaded and nuts tapped $\frac{3}{16}$ —28.



No. 7957
Lavatory Strainer
Nickel Plated

Complete with chain stay. Size of strainer $2\frac{5}{8}$ inches long by $1\frac{1}{4}$ inches wide. Chain stay $2\frac{1}{8}$ inches long under head.

Wrapped in tissue, packed 72 in a box.

Chain stay threaded and nuts tapped $\frac{3}{16}$ —28.



No. 12104
Ring Cup Top

Heavy weight wrought brass, unfinished. Diameter across top $2\frac{3}{8}$ inches, depth $\frac{5}{8}$ inches.

Shipped in bulk.

Illustrations are actual size.



Fittings for Wash Trays



No. 7140

Wash Tray Plug (Heavy)

Wrought plug and wrought stopper. Finish dip brass. Bolts $2\frac{1}{4}$ inches long, threaded No. 10 by 32 threads. Diameter of stopper $1\frac{3}{8}$ inches. Diameter of flange $3\frac{1}{2}$ inches.

Packed 24 in a box, 42 boxes in a case.

No. 12008

Wrought plug and wrought stopper. Finish dip brass. Bolts $2\frac{1}{4}$ inches long, threaded No. 10 by 32 threads. Diameter of stopper $1\frac{3}{8}$ inches. Diameter of flange $3\frac{1}{2}$ inches.

Packed 48 in a box, 24 boxes in a case.



No. 10345

Plug for Twin Waste for Wash Tray

Wrought plug with wrought stopper. Finish dip brass. Diameter of stopper $1\frac{1}{2}$ inches. Diameter of flange $2\frac{1}{2}$ inches. Plug threaded $1\frac{5}{8}$ inches outside diameter by $11\frac{1}{2}$ threads.

Shipped in bulk, 5 gross in a case

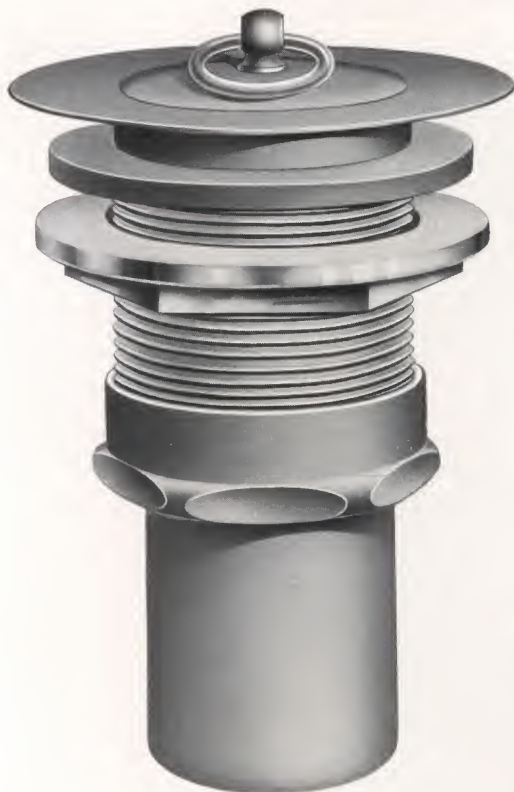


No. 12008

Wash Tray Plug (Light)



Fittings for Laundry Trays



No. 10151

Tray Plug with Coupling

No. 10143

Tray Plug with Coupling

All parts wrought brass except cast lock nut. Plug, finished polished and nicked, other parts dip brass. Diameter of flange $2\frac{1}{8}$ inches. Length of plug under flange $1\frac{1}{2}$ inches. Plug threaded $1\frac{3}{4}$ inches outside diameter by 16 threads.

Coupling and lock nuts tapped to fit. Tail piece $1\frac{3}{4}$ inches long, $1\frac{1}{2}$ inches outside diameter.

Packed 6 in a box, 36 boxes in a case.

No. 10151

Tray Plug with Coupling

All parts wrought brass except cast lock nut. Finish dip brass. Diameter of flange $2\frac{1}{8}$ inches. Length of plug under flange 2 inches. Plug threaded $1\frac{3}{4}$ inches outside diameter by 16 threads.

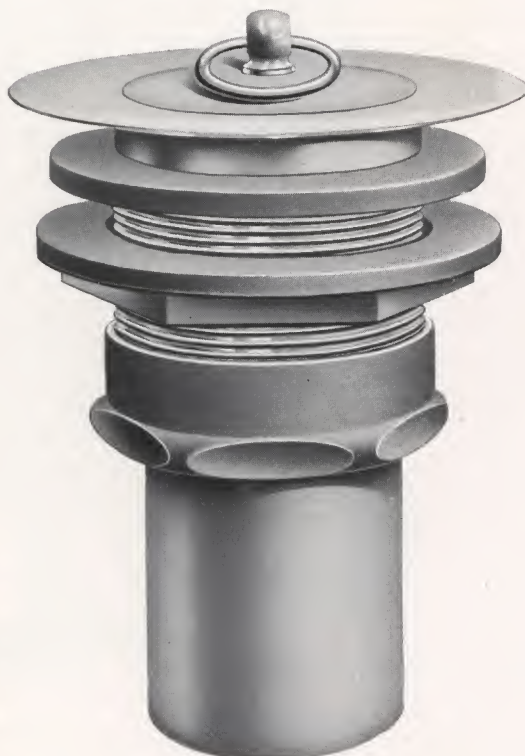
Coupling and lock nuts tapped to fit. Tail piece $1\frac{3}{4}$ inches long, $1\frac{1}{2}$ inches outside diameter. Stopper $1\frac{1}{2}$ inches diameter.

Packed 5 in a box, 45 boxes in a case.

No. 10189

Tray Plug with Coupling (Not illustrated)

Same as No. 10151 excepting tail piece $1\frac{1}{4}$ inches outside diameter.



No. 10143

Tray Plug with Coupling

All these fittings are furnished with heavy rubber gaskets and leather washers for coupling nuts.



**Soap Holders for
Enameled Iron Lavatories**



No. 12080

Soap Cup, Nickel Plated

Straight Back. Size $4\frac{3}{8}$ by $2\frac{7}{8}$ inches.

Wrapped in tissue.



No. 12081

Soap Cup, Nickel Plated

Corner Back. Size $4\frac{3}{8}$ by 3 inches.

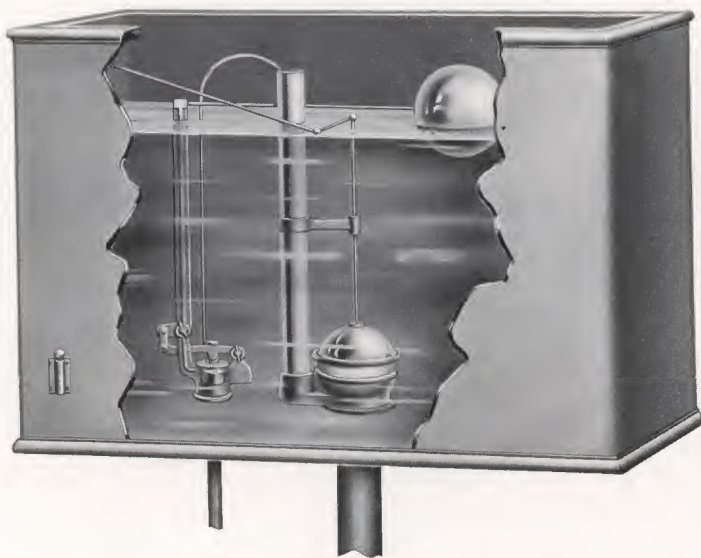
Wrapped in tissue.

Illustrations are actual size.



Fittings for Equipping Cisterns and Closet Combinations

IN the production of our brass fittings for the use of the manufacturer of tanks and closets, we have considered **Excellence** of chief importance as applied to material, workmanship and finish. To arrive at this standard, we have spared nothing to provide the best that could be obtained in intelligence and equipment. The brand name "**Perfect**"



as applied to some of the fittings, not only implies their character, but is verified in the goods themselves.

The following pages describe and illustrate a complete line of fittings required to fully equip a tank or closet, and we urge our patrons to carefully investigate our claims as to their merit.



The "Perfect" Valve for Low Down Tanks

WE have for many years manufactured valves for water-closet tanks. In making valves from castings we have found that there are several troubles which it has been impossible to overcome. One trouble has been the impossibility of making the metal flow solid, thereby causing porous and leaky castings; another trouble is in machining the seat of the valve to get a smooth seat, free from chatter. In endeavoring to overcome these difficulties, we have evolved our patented valve called the "**Perfect**" Valve.

There are reasons why these valves are perfect:—clean, clear water-ways, not choked with sand and fins of metal as occasionally occur in castings; no porous castings to be removed after tank is installed and ready for use; a seat that is smooth and perfect,



Sectional View showing Clean, Clear Water-way

allowing the ball to shut off absolutely tight; no chance of a rough, chattered seat in the valve. The valve sets lower in the tank than other valves of the same pattern releasing much more water from the tank to flush the closet. Overflow tube made of seamless tubing threaded and cemented into the body. Cast guide with thumb screw. Good cast lock nut with heavy rubber washer furnished with the valve.

This valve can be used with a rubber ball, but we recommend that it be installed with our "**Perfect**" Ball as illustrated in the foregoing cuts, thus making a complete perfect installation of which you will be proud, and which will satisfy your customers.



Tank Valves

No. 10347

Douglas Pattern Wrought Valve for Low Down Tanks

Complete with No. 10440 $2\frac{3}{4}$ inch "Perfect" Valve Ball, lock nut, rubber washer and two lift wires.

Cast guide with thumb screw. One-inch overflow tube made of seamless tubing 11 inches long assembled in valve.

Shank threaded 2 inch iron pipe size.

Shipped complete with or without ball.

See page 84 for detailed information about this valve.



No. 10347

"Perfect" Valve



No. 9366 Long Lift Wire
Furnished With Each Valve

No. 10407

Douglas Pattern Wrought Valve for Low Down Tanks

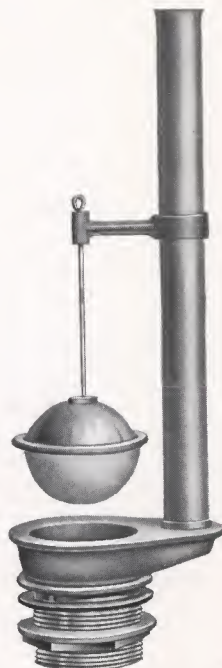
Complete with No. 10439 $2\frac{1}{2}$ inch "Perfect" Valve Ball, lock nut, rubber washer and two lift wires.

Cast guide with thumb screw. One inch overflow tube made of seamless tubing 11 inches long assembled in valve.

Shank threaded 2 inch iron pipe size.

Shipped complete with or without ball.

See page 84 for detailed information about this valve.

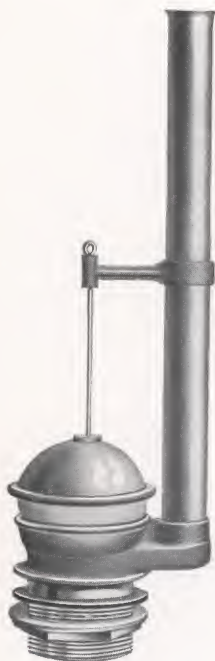


No. 10407

"Perfect" Valve



Tank Valves



No. 9366
Tank Valve

No. 9366

Douglas Pattern Cast Valve for Low Down Tanks

Complete with No. 10440 $2\frac{3}{4}$ inch "Perfect" Valve Ball, lock nut, rubber washer and two lift wires.

Cast guide with thumb screw. One inch overflow tube made of seamless tubing 11 inches long assembled in valve.

Shank threaded 2 inch iron pipe size.

Shipped complete with or without ball.



No. 9366 Long Lift Wire
Furnished With Each Valve

No. 10273

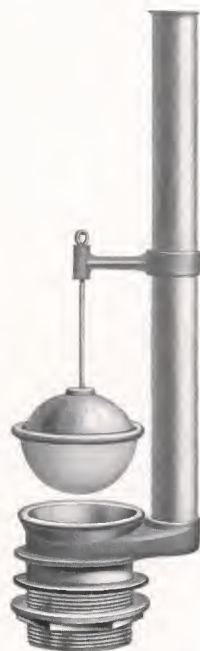
Douglas Pattern Cast Valve for Low Down Tanks

Complete with No. 10439 $2\frac{1}{2}$ inch "Perfect" Valve Ball, lock nut, rubber washer and two lift wires.

Cast guide with thumb screw. One inch overflow tube made of seamless tubing 11 inches long assembled in valve.

Shank threaded 2 inch iron pipe size.

Shipped complete with or without ball.



No. 10273
Tank Valve



Tank Valves



No. 9367

Douglas Pattern Cast Valve for High Tanks

Complete with No. 10438 2 inch "Perfect" Valve Ball, 1 inch brass syphon, $1\frac{1}{2}$ inch iron pipe size shank, coupling nut made to slip either $1\frac{1}{4}$, $1\frac{3}{8}$ or $1\frac{1}{2}$ inch flush pipes. Lock and coupling nuts, polished and nicked. No tail piece included.

Shipped complete with or without ball.



No. 10014

Straight Brass Refill Tube Fully Annealed

Length 18 inches, outside diameter $\frac{1}{4}$ inch, threaded $\frac{1}{4}$ —40.

Shipped in bulk.



"Perfect" Valve Ball



No. 10440

(Full Size)

The "Perfect" Valve Ball embodies in its construction several essential requirements.

It is constructed in such a manner as to prevent the rubber from elongating or bulging out of shape, which is sure to occur in the all rubber ball.

The metal and rubber parts cannot separate.

The spud is sufficiently large and secured in such a manner as not to become loosened.

The metal shell is made of pure copper with coating of Straits block tin to prevent chemical action in water.

Weighs less than the best rubber ball, allowing more water to escape from the tank before closing the valve.

Spud tapping, No. 6 by 32 threads. Wire threading, No. 6 by 32 threads.

Special Rubber Composition of Superior Quality

- No. 10438 Small, 2-inch diameter.
- No. 10439 Medium, 2½-inch diameter.
- No. 10440 Large, 2¾-inch diameter.

Boxed in dozens, 27 boxes in a case. Wires not included.



No. 9366

Short Lift Wire
(Full Size)



Cone for Syphon Valve



No. 9260

Cone, Unfinished

Diameter $2\frac{1}{8}$ inches, length over all 8 inches.

Large holes $\frac{5}{8}$ inch diameter, small holes $\frac{1}{8}$ inch diameter.

Can furnish in special lengths when ordered in sufficient quantities.

Shipped in bulk in cases.



Solderless Floats



Floats packed one dozen in a box.

Every float is made without solder and is reinforced with a center piece. Floats are tested for leaks, to prevent defective floats being shipped. We pack our floats in boxes having a separate compartment for each float to prevent denting, also for convenience in handling. When ordered, will ship in bulk, packed in excelsior in cases.



No. 10296
Copper Float

No. 10296

Solderless Corrugated Copper Float

Diameter 5 inches. Spud tapped $\frac{1}{4}$ inch by 20 threads.

No. 10297 (*Not Illustrated*). Same as No. 10296 but tinned.

No. 10298 (*Not Illustrated*). Same as No. 10296 but $4\frac{1}{2}$ inches in diameter.

No. 10299 (*Not Illustrated*). Same as No. 10296 but $4\frac{1}{2}$ inches in diameter and tinned.



Solderless Floats



No. 10314

Solderless Plain Copper Float

12 ounce copper. Diameter 5 inches.
Spud tapped $\frac{1}{4}$ inch by 20 threads.



No. 10444

Solderless Corrugated Copper Float

Dimensions 4 inches by 5 inches. Spud tapped
 $\frac{1}{4}$ inch by 20 threads.

No. 10315 (Not Illustrated)

Solderless Plain Copper Float

This float is the same as No. 10314, but
tinned to prevent chemical action in water

No. 10465 (Not Illustrated.)

Solderless Corrugated Copper Float

Same as Float No. 10444, but tinned.

No. 6822

Brass Float Rod

Threaded $\frac{1}{4}$ inch by 20 threads.

Stock lengths

6, 7, 8, 9, 10, 11 and 12 inches.

Shipped in bulk.



No. 6822

**Brass Float
Rod**

Floats are packed 12 in a heavy corrugated box, 72 in a case.

Will ship in bulk if so ordered.



Brass Float Rods



No. 6822. Six inches long



No. 6822. Seven inches long



No. 6822. Eight inches long



No. 6822. Nine inches long



No. 6822. Ten inches long



No. 6822. Eleven inches long

Will furnish 12 inches long.

These stock lengths of brass float rods
are threaded $1\frac{1}{2}$ inches long, $\frac{1}{4}$ inch by 20 threads.

Shipped in bulk.

Brass Threaded Rod



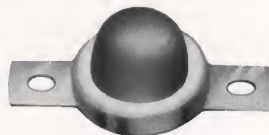
No. 6131.

Brass Threaded Rod

Threaded entire length $\frac{1}{4}$ inch by 20 threads.

Shipped in bulk in 12 or 24 inch lengths.

Bumper Holder



No. 7935

Bumper Holder, Nickel Plated

Size $1\frac{3}{8}$ inches long, $\frac{3}{4}$ inch wide.

Packed 36 in a box.

We can furnish with or without rubber bumper.



Ball Cocks for Low Down Tanks



No. 12093

Ball Cock for Low Down Tank

This ball cock is constructed with a powerful compound lever, plunger is made in two pieces, with cup washer between. The ball cock is equipped with rod shank and nickel plated nuts.



No. 12147

Ball Cock for Low Down Tank

In this ball cock the seat and discharge are at the bottom instead of at the top. The plunger top is packed with a cup washer to prevent spurting. This ball cock will prove very efficient.

Shipped in bulk.



Supply Pipes for Low Cisterns



No. 7148
Tank Supply Pipe
Nickel Plated

Brazed brass tubing. $\frac{5}{8}$ inch outside diameter, 21 inches long. Collar $\frac{1}{8}$ inch diameter formed on one end, threaded for $\frac{3}{8}$ inch iron pipe size on other end.



No. 7149
Tank Supply Pipe
Nickel Plated

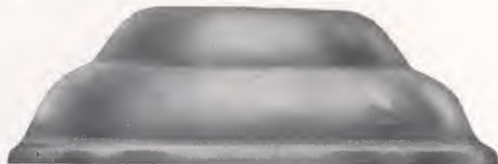
Brazed brass tubing. $\frac{3}{4}$ inch outside diameter, 21 inches long. Collar $\frac{1}{8}$ inch diameter formed on one end, threaded $\frac{3}{8}$ inch iron pipe size on other end.

These pipes are packed regularly 350 in a case.



No. 6451
Wrought Brass Flange Nickel Plated

Light pattern. We will supply either style of these flanges with our tank supply pipes. Orders should specify style wanted by number.



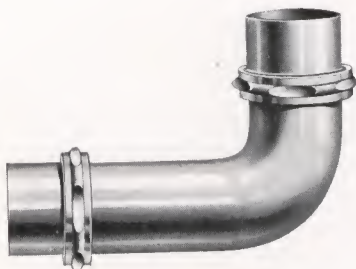
No. 9280
Wrought Brass Flange Nickel Plated

Heavy pattern. This style flange is made of heavy gauge brass, not easily dented, and so constructed to bear a person's weight without crushing.

All our tank supply pipes are wrapped singly in tissue.



Fittings for Tanks



No. 9343

Elbow for Low Down Tank
Nickel Plated

Wrought tubing 2 inches outside diameter, complete with 2 nuts, rubber washers and brass followers. Stock sizes $3\frac{1}{2}$ by 5 inches or 4 by 6 inches, center to end.

Packed one in a box.

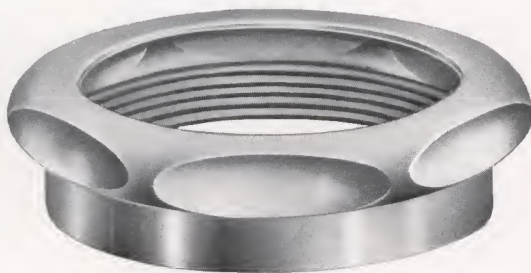
Will furnish cast or wrought nuts as shown on this page.



No. 12162

Cast Brass Hexagon Nut
Nickel Plated

Tapped 2 inch iron pipe size.
Size of hole 2 inches.



No. 10434

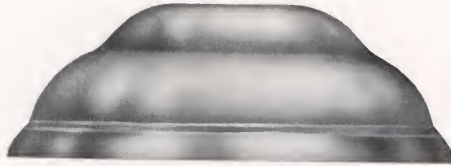
Wrought Brass Hexagon Nut
Nickel Plated

Tapped 2 inch iron pipe size.
Size of hole 2 inches.

Specify on all orders for elbows, which nut is to be supplied.



Fittings for Tanks

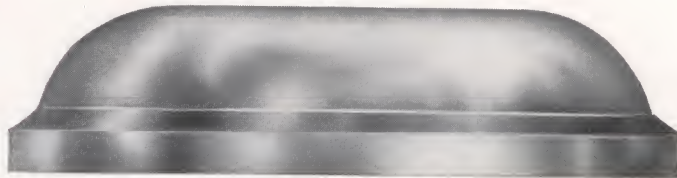


No. 10170

Wrought Brass Flange for Supply Pipe
Polished and Nickeled

Diameter at base $2\frac{5}{8}$ inches, height $1\frac{1}{8}$ inch.
Can be pierced for either $\frac{5}{8}$ inch outside diameter or $\frac{3}{8}$ inch iron pipe size holes.

Wrapped in tissue and bundled.



No. 10169

Wrought Brass Flange for Closet Spud
Polished and Nickeled

Diameter at base $3\frac{1}{2}$ inches, height $\frac{5}{8}$ inch.
Pierced 2 inch iron pipe size.

Wrapped in tissue and bundled.

These flanges are shipped in sets, consisting of one of each.

Illustrations are actual size.



Slip Joint Elbows

No. 9345

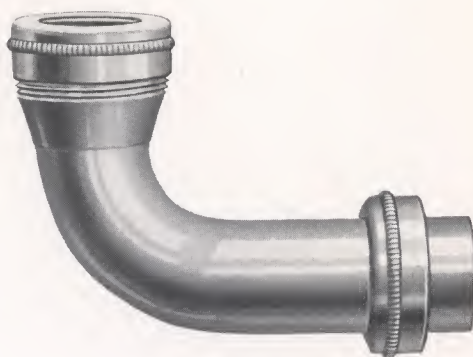
Slip Joint Elbow for Flush Pipe

Wrought brass, polished or dipped nickel plate.

Complete with nuts and rubber washers. Nuts made for $1\frac{1}{4}$ inch pipe and $1\frac{1}{4}$ inch spud, or for $1\frac{3}{8}$ inch pipe and $1\frac{1}{4}$ inch spud. Measurements center to end, $4\frac{1}{8}$ inches.

Spud nut tapped $1\frac{1}{4}$ inch iron pipe size and pierced $1\frac{1}{4}$ inch hole. Elbow nut tapped $1\frac{5}{8}$ inches by 14 threads and pierced $1\frac{1}{4}$ or $1\frac{3}{8}$ inch hole.

Wrapped and packed 12 in a box.



No. 9345

Slip Joint Elbow

No. 10182

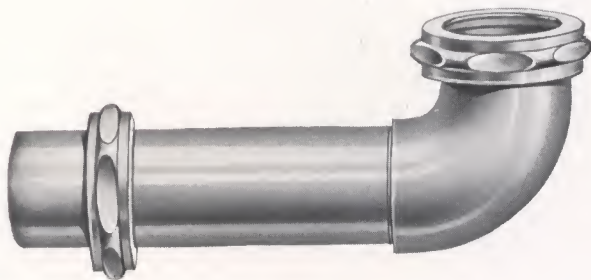
Slip Joint Elbow for Flush Pipe

Cast brass, nickel plated.

Complete with nuts and rubber washers. Nuts made for $1\frac{1}{4}$ inch pipe and $1\frac{1}{4}$ inch spud. Measurements center to end, 5 inches.

Spud nut tapped $1\frac{1}{4}$ inch iron pipe size, and pierced $1\frac{1}{4}$ inch hole. Elbow nut tapped $1\frac{5}{8}$ inches by 14 threads and pierced $1\frac{1}{4}$ inch hole.

Wrapped and packed 12 in a box.



No. 10182

Slip Joint Elbow

The finish and nickel plating on these fittings are of superior quality.



Tank Brackets



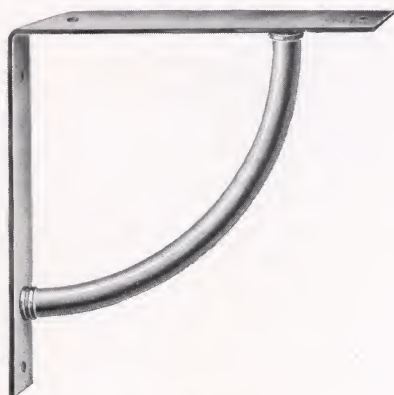
No. 7141

Nickel Plated Brass Tank Bracket



No. 7142

Nickel Plated Brass Tank Bracket



No. 10353

Nickel Plated or Polished Brass Tank Bracket



No. 7143

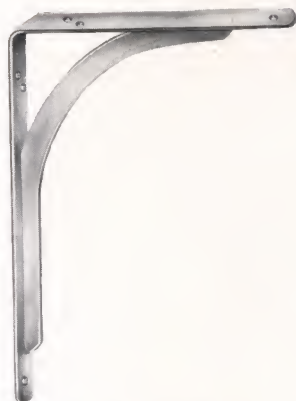
Nickel Plated Brass Tank Bracket

No.	Metal	Size	Width	Packing
7141	Brass	7 x 9 inches	$\frac{3}{4}$ inch	Wrapped in tissue, 6 pairs in a box.
7142	Brass	7 x 9 inches	$\frac{3}{4}$ inch	Wrapped in tissue, 6 pairs in a box.
7143	Brass	$3\frac{1}{2} \times 3\frac{1}{2}$ inches	$2\frac{1}{2}$ inches	Wrapped in tissue, 6 pairs in a package.
10353	Brass	8 x 8 inches	$\frac{5}{16}$ inch	Wrapped in tissue, 3 pairs in a box.

Highly polished finish on these brackets. No screws included in packing.



Tank Brackets



No. 5379

Nickel Plated Steel Tank
Bracket



No. 5799

Nickel Plated Steel Tank
Bracket



No. 7187

Nickel Plated Wrought Brass
Tank Bracket



No. 7150

Nickel Plated Cast Brass
Tank Bracket

No.	Metal	Size	Width	Packing
5379	Steel	6 x 8 inches	$\frac{7}{8}$ inch	12 pairs in a box.
5379	Steel	7 x 9 inches	$\frac{7}{8}$ inch	12 pairs in a box.
5379	Steel	8 x 10 inches	$\frac{7}{8}$ inch	12 pairs in a box.
5798 (Not illustrated)				
Style 5799	Steel	8 x 10 inches	$\frac{7}{8}$ inch	6 pairs in a box.
5799	Steel	6 x 8 inches	$\frac{7}{8}$ inch	6 pairs in a box.
6400 (Not illustrated)				
Style 5799	Steel	7 x 9 inches	$\frac{7}{8}$ inch	6 pairs in a box.
7150	Brass	$1\frac{1}{2} \times 1\frac{1}{2}$ inches	$\frac{3}{4}$ inch	Wrapped in tissue, 36 pairs in a box.
7187	Brass	$3\frac{1}{2}$ inches long	$1\frac{1}{2}$ inches	Wrapped in tissue, 12 pairs in a box.

All the above brackets high grade finish and plate. No screws included in packing.



Adjustable Guide Holders



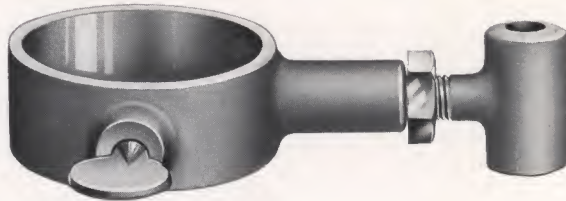
No. 12070

Adjustable Guide Holder

This guide holder is made to slip on a one-inch overflow tube on a low down tank valve and the guide is made adjustable to fit any Douglas type valve with rubber ball.

Equipped with flat head binding screw.

Packed 50 in a box.



No. 12074

Adjustable Guide Holder

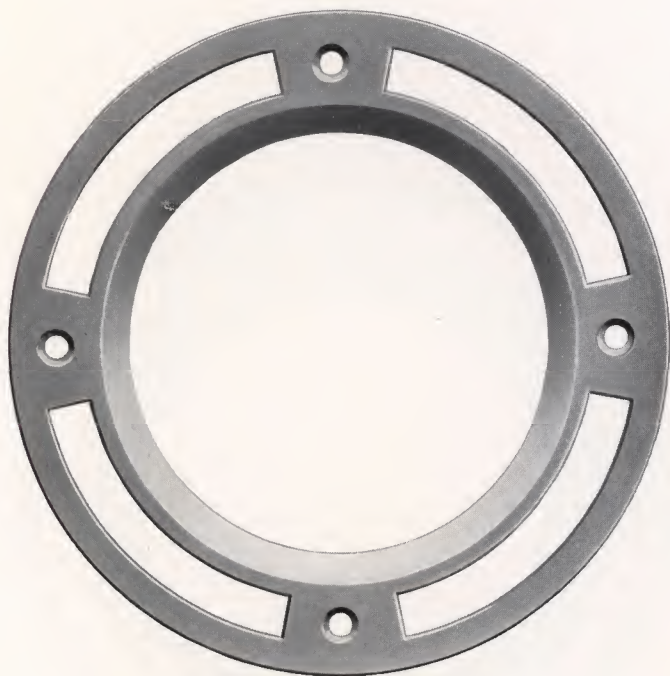
This guide holder is similar to No. 12070 excepting that it is made to slip on a one and one-quarter inch overflow tube.

Packed 50 in a box.

Illustrations are actual size.



Closet Floor Flanges



No. 6855

Cast Brass Closet Floor Flange

Light pattern, average weight $7\frac{3}{4}$ ounces each.
Measurements, $6\frac{7}{8}$ inches outside diameter, $4\frac{1}{4}$ inches inside diameter.

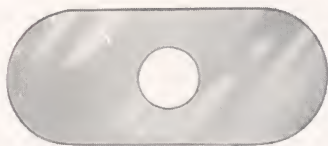
No. 6225 Cast Brass Closet Floor Flange (Not Illustrated).

Heavy pattern, average weight 11 ounces each.
Measurements, $7\frac{1}{8}$ inches outside diameter, $4\frac{1}{4}$ inches inside diameter.
Closet floor flanges are shipped in cases of 250 to each case.

Floor Screws, Bolts, Nuts and Washers for Closets



No. 5457
Nickel Plated Head
No. 6781
Brass Screw
No. 6724
Iron Screw



No. 5456
Nickel Plated Washer



No. 5474
Nickel Plated Washer



No. 5458
Nickel Plated Head
No. 6026
Wrought Brass Bolt

Many other attractive combinations which can be supplied from stock are shown on pages 66, 67 and 69.



Closet Floor Flanges



No. 12082

Cast Brass Closet Floor Flange

Heavy pattern, average weight 16 ounces each.

Measurements, 7 inches outside diameter, 4½ inches inside diameter.

Closet floor flanges are shipped in cases of 250 to each case.

Refer to page 101 for screws, nuts, bolts and washers used with this flange.



Round Copper Rods

Round Brass Rods

Diameter	Weight per foot in length	Diameter	Weight per foot in length
$\frac{1}{8}$ inch	.050 lbs.	$\frac{1}{8}$ inch	.048 lbs.
$\frac{1}{4}$ "	.190 "	$\frac{1}{4}$ "	.181 "
$\frac{3}{8}$ "	.424 "	$\frac{3}{8}$ "	.411 "
$\frac{1}{2}$ "	.755 "	$\frac{1}{2}$ "	.731 "
$\frac{5}{8}$ "	1.190 "	$\frac{5}{8}$ "	1.130 "
$\frac{3}{4}$ "	1.690 "	$\frac{3}{4}$ "	1.640 "
$\frac{7}{8}$ "	2.310 "	$\frac{7}{8}$ "	2.240 "
1 "	3.020 "	1 "	2.930 "
$1\frac{1}{8}$ "	3.820 "	$1\frac{1}{8}$ "	3.700 "
$1\frac{1}{4}$ "	4.710 "	$1\frac{1}{4}$ "	4.560 "
$1\frac{3}{8}$ "	5.710 "	$1\frac{3}{8}$ "	5.530 "
$1\frac{1}{2}$ "	6.790 "	$1\frac{1}{2}$ "	6.570 "
$1\frac{5}{8}$ "	7.940 "	$1\frac{5}{8}$ "	7.690 "
$1\frac{3}{4}$ "	9.210 "	$1\frac{3}{4}$ "	8.920 "
$1\frac{7}{8}$ "	10.610 "	$1\frac{7}{8}$ "	10.280 "
2 "	12.080 "	2 "	11.700 "

Metals

Weight per Square Foot in Pounds

Thickness	Cast Iron	Steel	Copper	Brass	Lead	Zinc
$\frac{1}{16}$ inch	2.34	2.55	2.89	2.67	3.69	2.34
$\frac{1}{8}$ "	4.69	5.10	5.78	5.35	7.38	4.68
$\frac{3}{16}$ "	7.03	7.66	8.67	8.02	11.07	7.02
$\frac{1}{4}$ "	9.38	10.21	11.56	10.70	14.76	9.36
$\frac{5}{16}$ "	11.73	12.76	14.45	13.37	18.45	11.70
$\frac{3}{8}$ "	14.07	15.31	17.34	16.05	22.14	14.04
$\frac{7}{16}$ "	16.42	17.87	20.23	18.72	25.83	16.34
$\frac{1}{2}$ "	18.77	20.42	23.12	21.40	29.53	18.72
$\frac{9}{16}$ "	21.11	22.97	26.01	24.07	33.22	21.08
$\frac{5}{8}$ "	23.46	25.52	28.90	26.75	36.91	23.44
$\frac{11}{16}$ "	25.81	28.08	31.97	29.42	40.60	25.80
$\frac{3}{4}$ "	28.15	30.63	34.68	32.10	44.29	28.13
$\frac{13}{16}$ "	30.50	33.18	37.57	35.19	47.98	30.49
$\frac{7}{8}$ "	32.85	35.73	40.69	38.28	51.67	32.81
$\frac{15}{16}$ "	35.19	38.28	43.35	41.37	55.37	35.17
1 "	37.54	40.83	46.25	43.75	59.06	37.50



Weight of
SEAMLESS
BRASS AND COPPER TUBING

Iron Pipe Sizes

Regular

Iron Pipe Size	Diameter Inches		Pounds per Foot	
	Outside	Inside	Brass	Copper
$\frac{1}{8}$	.405	.281	.246	.259
$\frac{1}{4}$	.540	.375	.437	.459
$\frac{3}{8}$	.675	.494	.612	.644
$\frac{1}{2}$	.840	.625	.911	.958
$\frac{3}{4}$	1.050	.822	1.235	1.298
1	1.315	1.062	1.740	1.829
$1\frac{1}{4}$	1.660	1.368	2.557	2.689
$1\frac{1}{2}$	1.900	1.600	3.037	3.193
2	2.375	2.062	4.017	4.224
$2\frac{1}{2}$	2.875	2.500	5.830	6.130
3	3.500	3.062	8.314	8.741
$3\frac{1}{2}$	4.000	3.500	10.850	11.410
4	4.500	4.000	12.290	12.930
$4\frac{1}{2}$	5.000	4.500	13.740	14.440
5	5.563	5.062	15.400	16.190
6	6.625	6.125	18.440	19.390
7	7.625	7.062	23.920	25.150
8	8.625	8.000	30.050	31.600
9	9.625	8.937	36.940	38.840
10	10.750	10.019	43.910	46.170

Variations from these weights must be expected in practice.



Comparison of Wire Gauges

Gauge No.	American or Brown & Sharpe's	Birmingham or Stubs	Washburn & Moen	Imperial S. W. G.	London or Old English	United States Standard	Gauge No.
0000000	.....	....	.490	.500	....	.500	0000000
000000	.5800	....	.460	.464	....	.46875	000000
00000	.5165	....	.430	.432	....	.4375	00000
0000	.4600	.454	.3938	.400	.454	.40625	0000
000	.4096	.425	.3625	.372	.425	.375	000
00	.3648	.380	.3310	.348	.38	.34375	00
0	.3249	.340	.3065	.324	.34	.3125	0
1	.2893	.300	.2830	.300	.3	.28125	1
2	.2576	.284	.2625	.276	.284	.265625	2
3	.2294	.259	.2437	.252	.259	.25	3
4	.2043	.238	.2253	.232	.238	.234375	4
5	.1819	.220	.2070	.212	.22	.21875	5
6	.1620	.203	.1920	.192	.203	.203125	6
7	.1443	.180	.1770	.176	.18	.1875	7
8	.1285	.165	.1620	.160	.165	.171875	8
9	.1144	.148	.1483	.144	.148	.15625	9
10	.1019	.134	.1350	.128	.134	.140625	10
11	.09074	.120	.1205	.116	.12	.125	11
12	.08081	.109	.1055	.104	.109	.109375	12
13	.07196	.095	.0915	.092	.095	.09375	13
14	.06408	.083	.0800	.080	.083	.078125	14
15	.05707	.072	.0720	.072	.072	.0703125	15
16	.05082	.065	.0625	.064	.065	.0625	16
17	.04526	.058	.0540	.056	.058	.05625	17
18	.04030	.049	.0475	.048	.049	.05	18
19	.03589	.042	.0410	.040	.040	.04375	19
20	.03196	.035	.0348	.036	.035	.0375	20
21	.02846	.032	.03175	.032	.0315	.034375	21
22	.02535	.028	.0286	.028	.0295	.03125	22
23	.02257	.025	.0258	.024	.027	.028125	23
24	.02010	.022	.0230	.022	.025	.025	24
25	.01790	.020	.0204	.020	.023	.021875	25
26	.01594	.018	.0181	.018	.0205	.01875	26
27	.01420	.016	.0173	.0164	.0187	.0171875	27
28	.01264	.014	.0162	.0148	.0165	.015625	28
29	.01126	.013	.0150	.0136	.0155	.0140625	29
30	.01003	.012	.0140	.0124	.01372	.0125	30
31	.008928	.010	.0132	.0116	.0122	.0109375	31
32	.007950	.009	.0128	.0108	.0112	.01015625	32
33	.007080	.008	.0118	.0100	.0102	.009375	33
34	.006305	.007	.0104	.0092	.0095	.00859375	34
35	.005615	.005	.0095	.0084	.009	.0078125	35
36	.005000	.004	.0090	.0076	.0075	.00703125	36
37	.004453	....	.0085	.0068	.0065	.006640625	37
38	.003965	....	.008	.0060	.0057	.00625	38
39	.003531	....	.0075	.0052	.005	.....	39
40	.003145	....	.007	.0048	.0045	.....	40
41	.002800	....	....	.0044	....	.....	41
42	.002494	....	....	.004	....	.....	42
43	.002221	....	....	.0036	....	.....	43
44	.001978	....	....	.0032	....	.....	44
45	.001761	....	....	.0028	....	.....	45
46	.001568	....	....	.0024	....	.....	46
47	.001397	....	....	.002	....	.....	47
48	.001244	....	....	.0016	....	.....	48
49	.001018	....	....	.0012	....	.....	49
50	.0009863	....	....	.001	....	.....	50



Fractions of an Inch and Decimal Equivalents

1/2	1/4	1/8	1/16	1/32	1/64	.015625
					3/64	.03125
			3/32		5/64	.046875
					7/64	.0625
		3/16	5/32		9/64	.078125
					11/64	.09375
			7/32		13/64	.109375
					15/64	.125
	3/8	5/16	9/32		17/64	.140625
					19/64	.15625
			11/32		21/64	.171875
					23/64	.1875
		7/16	13/32		25/64	.203125
					27/64	.21875
			15/32		29/64	.234375
					31/64	.250
1/2	5/8	9/16	17/32		33/64	.265625
					35/64	.28125
			19/32		37/64	.296875
					39/64	.3125
		11/16	21/32		41/64	.328125
					43/64	.34375
			23/32		45/64	.359375
					47/64	.375
	3/4	13/16	25/32		49/64	.390625
					51/64	.40625
			27/32		53/64	.421875
					55/64	.4375
		7/8	29/32		57/64	.453125
					59/64	.46875
			31/32		61/64	.484375
					63/64	.500
	5/8	9/16	17/32		33/64	.515625
					35/64	.53125
			19/32		37/64	.546875
					39/64	.5625
		11/16	21/32		41/64	.578125
					43/64	.59375
			23/32		45/64	.609375
					47/64	.625
	3/4	13/16	25/32		49/64	.640625
					51/64	.65625
			27/32		53/64	.671875
					55/64	.6875
		7/8	29/32		57/64	.703125
					59/64	.71875
			31/32		61/64	.734375
					63/64	.750
1/2	5/8	9/16	17/32		33/64	.765625
					35/64	.78125
			19/32		37/64	.796875
					39/64	.8125
		11/16	21/32		41/64	.828125
					43/64	.84375
			23/32		45/64	.859375
					47/64	.875
	3/4	13/16	25/32		49/64	.890625
					51/64	.90625
			27/32		53/64	.921875
					55/64	.9375
		7/8	29/32		57/64	.953125
					59/64	.96875
			31/32		61/64	.984375
					63/64	1.0000



Weight per Foot of Brazed Brass Tubing
Outside Measurement. Brown & Sharpe's Gauge
 Diameter in Inches and Pounds per Foot.

Gauge	Decimal Equivalent Inches	$\frac{1}{8}$	$\frac{3}{16}$	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2	$2\frac{1}{4}$	$2\frac{1}{2}$	$2\frac{3}{4}$	3
No. 12	.08081	....	....	....	....	....	....	.515	.633	.870	1.106	1.343	1.579	1.816	2.052	2.289	2.525	2.762
No. 13	.07196	....	....	....	....	....	....	.466	.571	.782	.993	1.203	1.414	1.625	1.835	2.046	2.257	2.467
No. 14	.06408	....	....	....	....	.233	.327	.421	.515	.702	.890	1.077	1.265	1.453	1.640	1.828	2.015	2.203
No. 15	.05707	....	....	....	.171	.212	.296	.380	.463	.630	.797	.964	1.131	1.298	1.465	1.632	1.799	1.966
No. 16	.05082	....	....	.119	.156	.193	.267	.342	.416	.565	.714	.862	1.011	1.160	1.309	1.457	1.606	1.755
No. 17	.04526	....	....	.109	.142	.175	.241	.307	.373	.506	.638	.771	.903	1.036	1.168	1.301	1.433	1.566
No. 18	.04030	....	.069	.099	.128	.158	.217	.276	.335	.453	.571	.689	.807	.925	1.043	1.161	1.279	1.397
No. 19	.03589	....	.064	.090	.116	.143	.195	.248	.300	.405	.510	.615	.720	.825	.930	1.036	1.141	1.246
No. 20	.03196	.035	.058	.082	.105	.128	.175	.222	.269	.362	.456	.549	.643	.737	.830	.....	.....	.....
No. 21	.02846	.032	.053	.074	.095	.115	.157	.199	.240	.324	.407	.490	.574	.657	.....	.....	.....	.....
No. 22	.02535	.030	.048	.067	.085	.104	.141	.178	.215	.289	.363	.438	.512	.586	.....	.....	.....	.....
No. 23	.02257	.027	.044	.060	.077	.093	.126	.159	.192	.258	.324	.390	.457
No. 24	.02010	.025	.039	.054	.069	.084	.113	.142	.172	.231	.289	.348	.407



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